

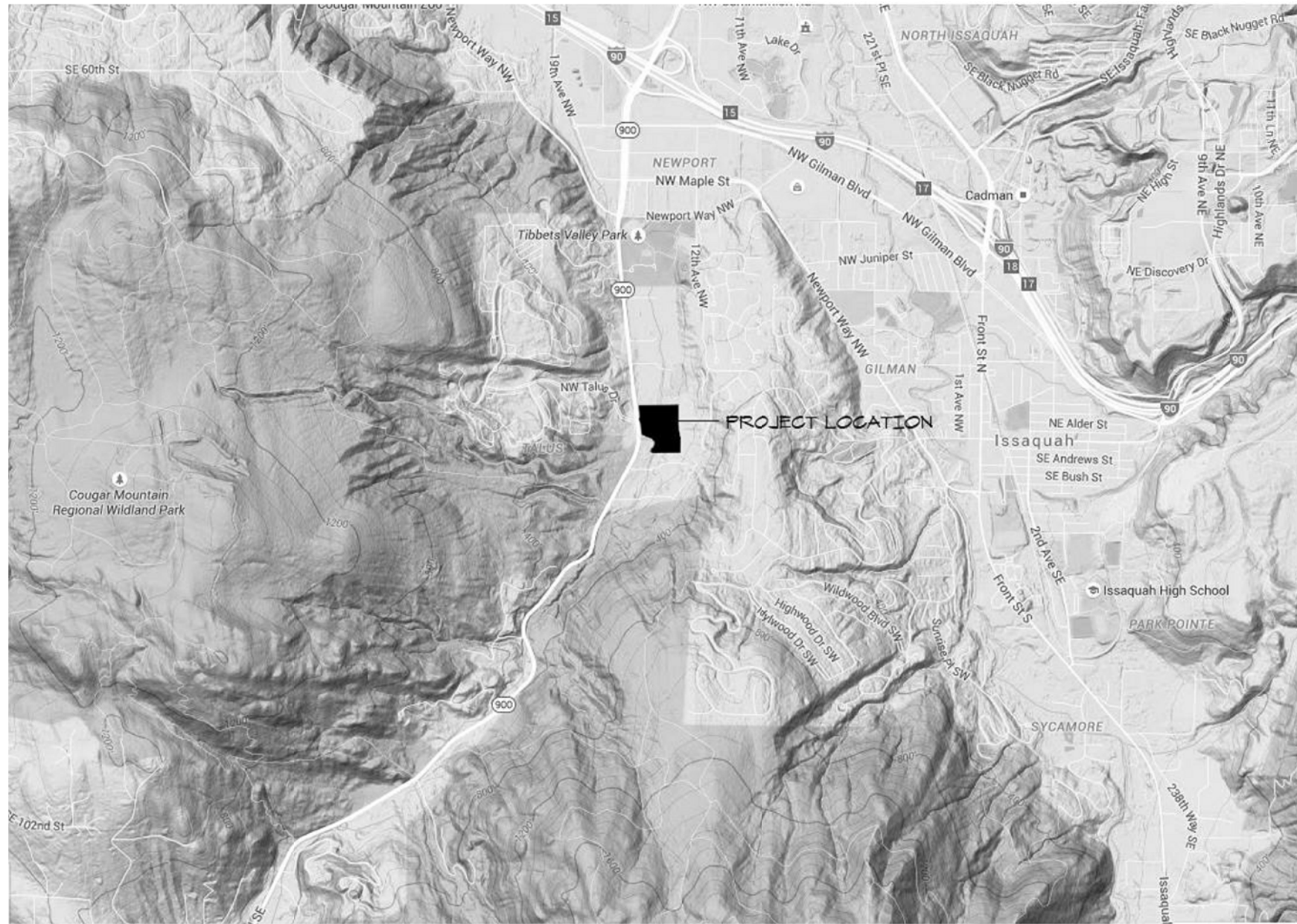
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# SILVERADO - ISSAQUAH

## ISSAQUAH, KING COUNTY, WASHINGTON



### VICINITY MAP



### PROJECT DATA

#### PARCEL NUMBER

SE-29-24-6, 292406-9041

#### LEGAL DESCRIPTION

LOT 5 ISSAQUAH LLA #PLN12-00027 REC #20121213900009 SD LLA BEING POR S 1/2 OF SE 1/4 OF SE 1/4 STR 29-24-6 LESS RD TGW POR NE 1/4 OF NE 1/4 LY ELY OF RD STR 32-24-6

#### ZONING

SF-E

#### OCCUPANCY CLASSIFICATION

A-3, B, R-2, S-1

#### TYPE OF CONSTRUCTION

TYPE V-A (WOOD)  
NFPA TYPE 13 SPRINKLERS THROUGHOUT

#### GROSS SITE AREA

955,902 SF (21.94 ACRES)

#### DEVELOPABLE SITE AREA

119,887 SF\* (AREA OF PROPOSED USE)

488,832 SF\*\* (APPROX. DEVELOPABLE AREA)

\* REMAINDER OF SITE TO BE PLACED IN A NATIVE GROWTH

PROTECTION EASEMENT.

\*\* APPROXIMATE DEVELOPABLE AREA FOR REMAINDER OF THE SITE, BASED UPON PRELIM CRITICAL AREAS SURVEY DATED 9/16/2014)

#### BASE SITE AREA

955,902 SF

#### GROSS FLOOR AREA

40,850 SF

#### UNIT SUMMARY (SLEEPING UNITS)

| UNIT SCHEDULE |      |        |      |              |         |            |
|---------------|------|--------|------|--------------|---------|------------|
| UNITS         | TYPE | AREA   | AD A | # BEDS/ UNIT | # UNITS | TOTAL RES. |
| UNIT A1       |      |        |      |              | 13      |            |
| UNIT A2       |      | 332 SF |      |              | 2       |            |
| UNIT B1       |      |        |      |              | 27      |            |
| UNIT B2       |      |        |      |              | 8       |            |
| UNIT B3       |      |        |      |              | 3       |            |

GRAND TOTAL: 53

#### IMPERVIOUS/PERVIOUS SURFACE

|                            |            |         |
|----------------------------|------------|---------|
| IMPERVIOUS SURFACE =       | 50,417 SF  | (5.3%)  |
| PERVIOUS DRIVING SURFACE = | 33,654 SF  | (3.5%)  |
| PERVIOUS LANDSCAPE =       | 871,831 SF | (91.2%) |
| TOTAL                      | 955,902 SF | (100%)  |

#### OPEN SPACE

836,015 SF (87.5 %)  
\*AREA OUTSIDE OF THE PROPSD DEVELOPMENT TO BE PLACED UNDER A NGPE.

#### SITE SETBACKS

FRONT YARD = 30'

SIDE YARD = 15'

REAR YARD = 30'

#### BUILDING HEIGHT

FRONT YARD = 17' - 1 1/2" (23' - 9" TO RIDGE)

ALLOWED = 30'

#### PARKING

|                   |    |
|-------------------|----|
| STANDARD STALLS   | 46 |
| ACCESSIBLE STALLS | 2  |
| SUB-TOTAL         | 48 |

REQUIRED (91 RES / .5) + STAFF = 46 STALLS + STAFF

\*REDUCTION REQUESTED BASED UPON USE AS A MEMORY CARE FACILITY

|                |   |
|----------------|---|
| LOADING SPACES | 1 |
| BICYCLE STALLS | 4 |

#### WATER/SEWER UTILITIES

WATER: CITY OF ISSAQUAH

SEWER: CITY OF ISSAQUAH

#### AVAILABLE FIRE FLOW

XXX GPM, XX PSI STATIC PRESSURE, XX PSI RESIDUAL PRESSURE

#### ADDITION PERMITS REQUIRED

BUILDING PERMIT

NPDES PERMIT

### SHEET INDEX

#### ARCHITECTURAL

|      |                       |          |
|------|-----------------------|----------|
| A-1  | COVER SHEET           | 07/10/15 |
| A-2  | SITE PLAN OVERALL     | 07/10/15 |
| A-3  | CIRCULATION PLAN      | 07/10/15 |
| A-4  | BUFFER AVERAGING PLAN | 07/10/15 |
| A-5  | FLOOR PLAN            | 07/10/15 |
| A-6  | ROOF PLAN             | 07/10/15 |
| A-7  | EXTERIOR ELEVATIONS   | 07/10/15 |
| A-8  | EXTERIOR ELEVATIONS   | 07/10/15 |
| A-9  | RENDERINGS            | 07/10/15 |
| A-10 | RENDERINGS            | 07/10/15 |

#### CIVIL

|      |   |          |
|------|---|----------|
| C0.0 | COVER SHEET                               | 07/10/15 |
| C1.0 | GENERAL NOTES                             | 07/10/15 |
| C2.0 | BOUNDARY SURVEY                           | 07/10/15 |
| C2.1 | TOPOGRAPHIC SURVEY                        | 07/10/15 |
| C3.0 | TEMP. EROSION AND SEDIMENT CONTROL PLAN   | 07/10/15 |
| C3.1 | TEMP. EROSION AND SEDIMENT CONTROL DETAIL | 07/10/15 |
| C4.0 | GRADING AND DRAINAGE PLAN                 | 07/10/15 |
| C4.1 | GRADING AND DRAINAGE DETAIL               | 07/10/15 |
| C4.2 | INFILTRATION VAULT DETAIL                 | 07/10/15 |
| C5.0 | WATER PLAN                                | 07/10/15 |
| C5.1 | WATER DETAILS                             | 07/10/15 |
| C6.0 | SANITARY SEWER PLAN                       | 07/10/15 |
| C6.1 | SANITARY SEWER DETAILS                    | 07/10/15 |
| C7.0 | COMPOSIT UTILITY PLAN                     | 07/10/15 |
| C8.0 | EMERGENCY VEHICLE ACCESS                  | 07/10/15 |
| C8.1 | DELIVERY VEHICLE ACCESS                   | 07/10/15 |
| C9.0 | OFFSITE WATER MAIN EXTENSION              | 07/10/15 |

#### LANDSCAPE

|     |                                     |          |
|-----|-------------------------------------|----------|
| L-1 | CONCEPTUAL LANDSCAPE PLAN           | 07/10/15 |
| L-2 | LANDSCAPE SECTIONS & SITE AMENITIES | 07/10/15 |

### PROJECT DIRECTORY

#### OWNER

SILVERADO SENIOR LIVING, INC.  
8400 OAK CANYON, SUITE 200  
IRVINE, CA 92618  
P. (949) 930-3050  
PERRY DEVLIN  
DIRECTOR OF DEVELOPMENT  
pdevlin@silveradocare.com

#### ARCHITECT

WATTENBARGER ARCHITECTS  
2100 112TH AVE NE, SUITE #100  
BELLEVUE, WA 98004  
P. (425) 453-0606  
JAMES BROWN, AIA  
PRINCIPAL  
jbrown@wattenbarger.com

#### WETLANDS CONSULTANT

WETLAND RESOURCES, INC.  
9505 19th AVE SE, SUITE #106  
EVERETT, WA 98208  
P. (425) 337-3174  
SCOTT BRAINARD  
PROF. WETLANDS SCIENTIST  
scott@wetlandresources.com

#### OPERATOR

SILVERADO SENIOR LIVING, INC.  
8400 OAK CANYON, SUITE 200  
IRVINE, CA 92618  
P. (949) 930-3050  
PERRY DEVLIN  
DIRECTOR OF DEVELOPMENT  
pdevlin@silveradocare.com

#### CIVIL

PACE  
11255 KIRKLAND WAY, SUITE #300  
KIRKLAND, WA 98033  
P. (425) 827-2014  
PHIL CHEESEMAN, PE  
VICE PRESIDENT  
Philc@paceengrs.com

#### GEOTECH CONSULTANT

ASSOCIATED EARTH SCIENCES  
2911 1/2 HEWITT AVE., SUITE #2  
EVERETT, WA 98201  
P. 425-259-0522  
MATTHEW MILLER

#### TRAFFIC

TENW  
PO BOX 65254  
SEATTLE, WA 98155  
P. 206-361-7333  
MICHAEL READ, PE  
PRINCIPAL  
mikeread@tenw.com

#### LANDSCAPE ARCHITECT

RICHARD WARD & ASSOCIATES  
2100 112TH AVE. NE, SUITE #100  
BELLEVUE, WA 98004  
P. (206) 387-6223  
RICHARD WARD  
rwa1906@juno.com

#### CONTRACTOR

PENDING

| Revision Schedule |             |      |
|-------------------|-------------|------|
| #                 | DESCRIPTION | DATE |
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### COVER SHEET

**Silverado - Issaquah**  
7932 Renton-Issaquah Rd SE  
Issaquah, WA 98027



JOB NO.:

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DATE: 07/10/15

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DRAWN: Author

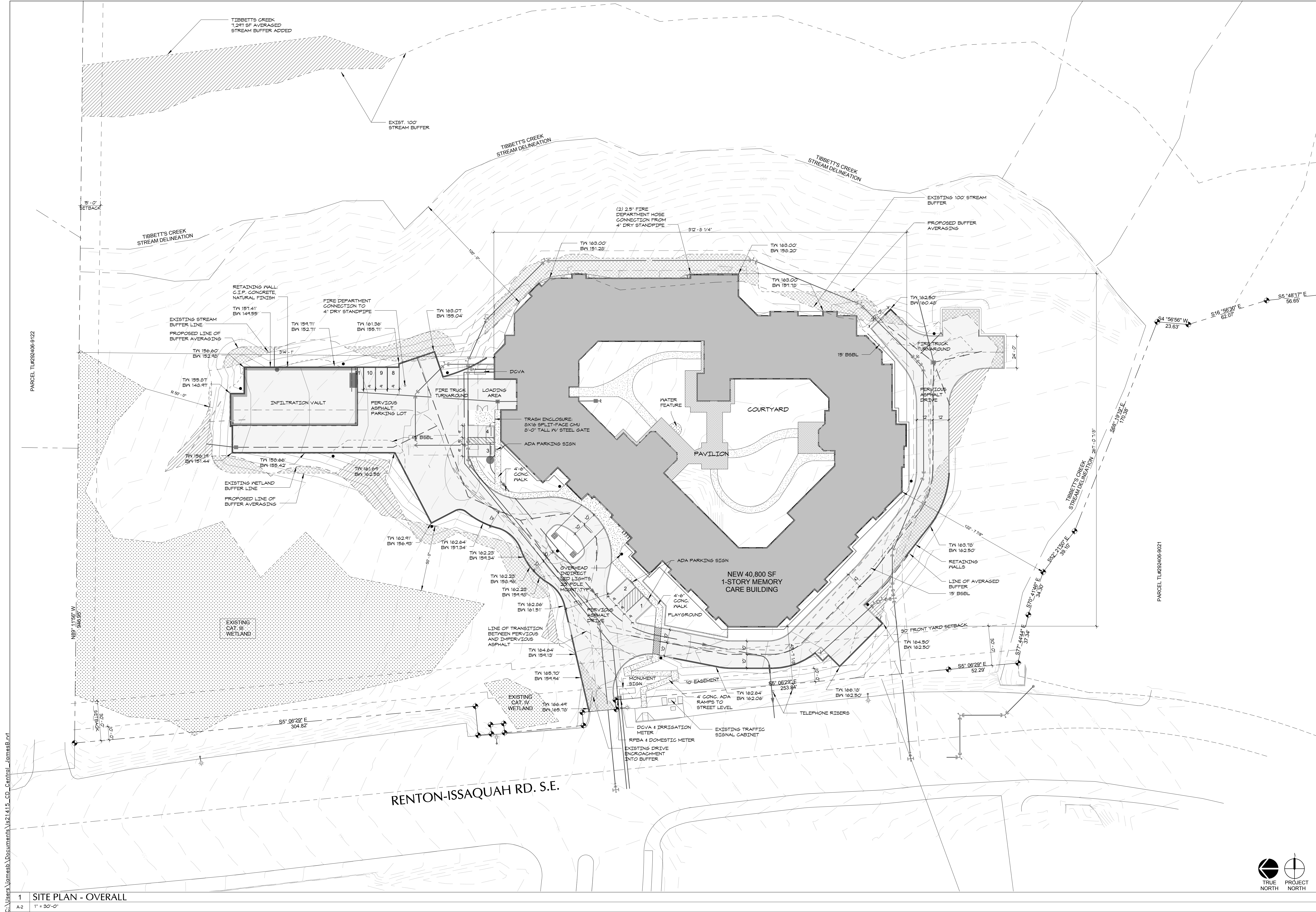
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SHEET NO.:

**A-1**



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WA Architecture  
WATTENBARGER

2100 112TH AVENUE NORTHEAST SUITE #100  
BELLEVUE, WA 98004  
T. 425-453-0606  
F. 425-453-4772

Revision Schedule

| # | DESCRIPTION | DATE |
|---|-------------|------|
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SITE PLAN  
OVERALL

Silverado - Issaquah  
7932 Renton-Issaquah Rd SE  
Issaquah, WA 98027

S SILVERADO  
lives enriched

JOB NO.:  
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SCALE: 1" = 30'-0"  
DRAWN: TM  
CHKD: JB  
SHEET NO.:  
A-2

TRUE NORTH  
PROJECT NORTH



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WATTENBARGER Architecture

2100 112TH AVENUE NORTHEAST SUITE #100  
BELLEVUE, WA 98004  
T. 425-453-0606  
F. 425-453-4772

Revision Schedule

| # | DESCRIPTION | DATE |
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CIRCULATION PLAN

Silverado - Issaquah

7932 Renton-Issaquah Rd SE  
Issaquah, WA 98027

S SILVERADO  
lives enriched

JOB NO.:

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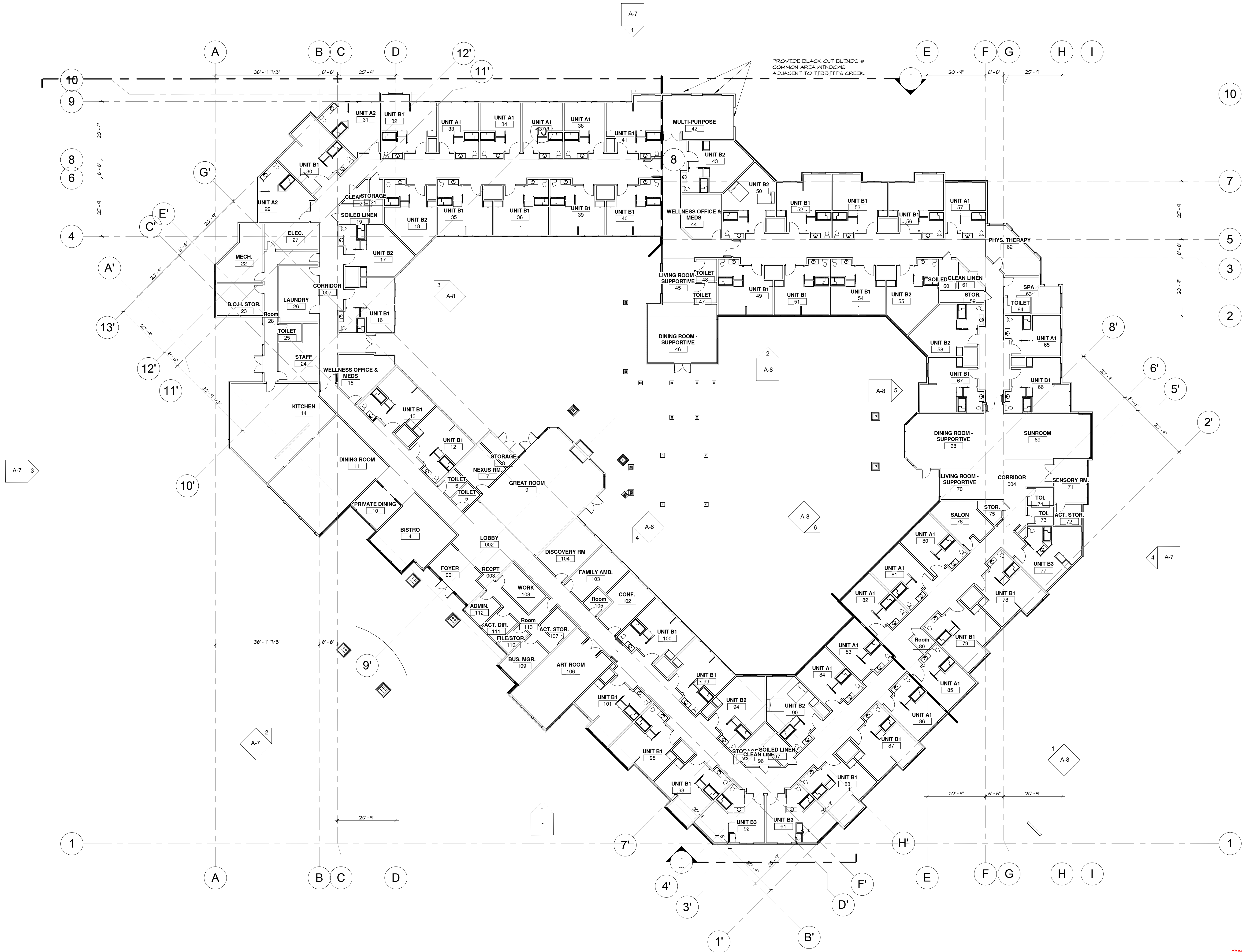
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A-3







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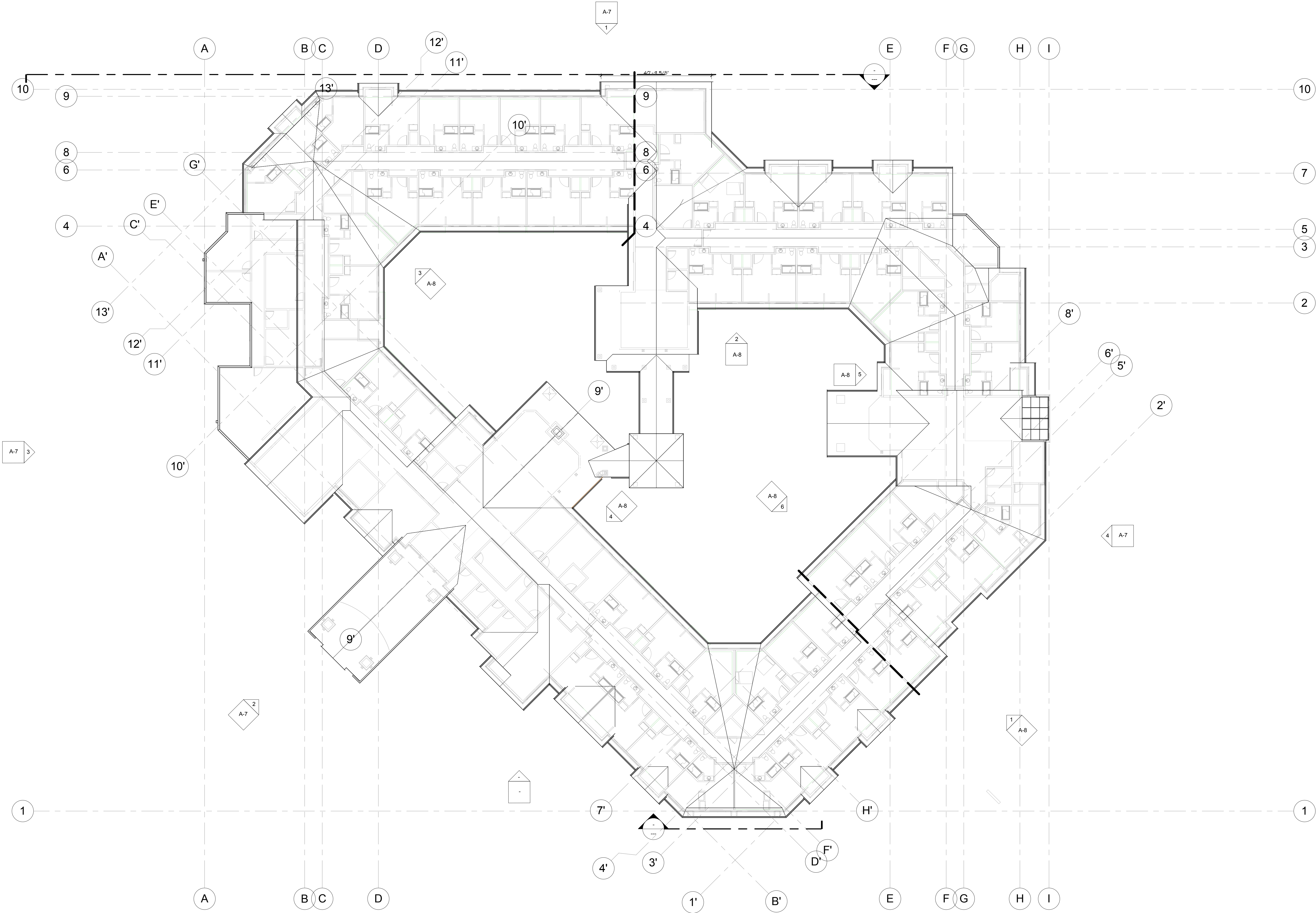
Silverado - Issaquah  
7932 Renton-Issaquah Rd SE  
Issaquah, WA 98027



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| CHKCD:    | Checker              |



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1 ROOF PLAN  
A-6 1/16" = 1'-0"

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## ROOF PLAN

**Silverado - Issaquah**  
7932 Renton-Issaquah Rd SE  
Issaquah, WA 98027

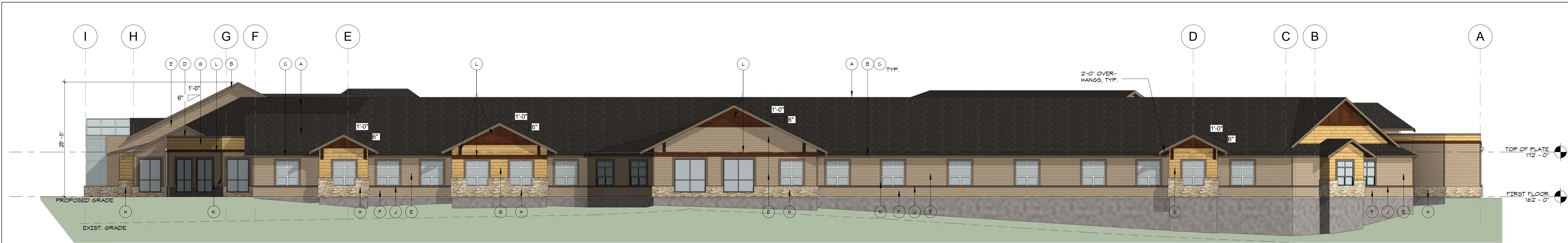


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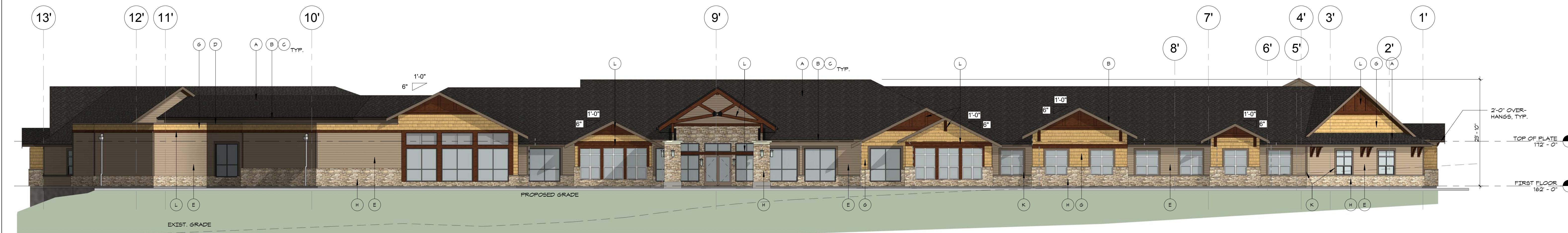
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**A-6**



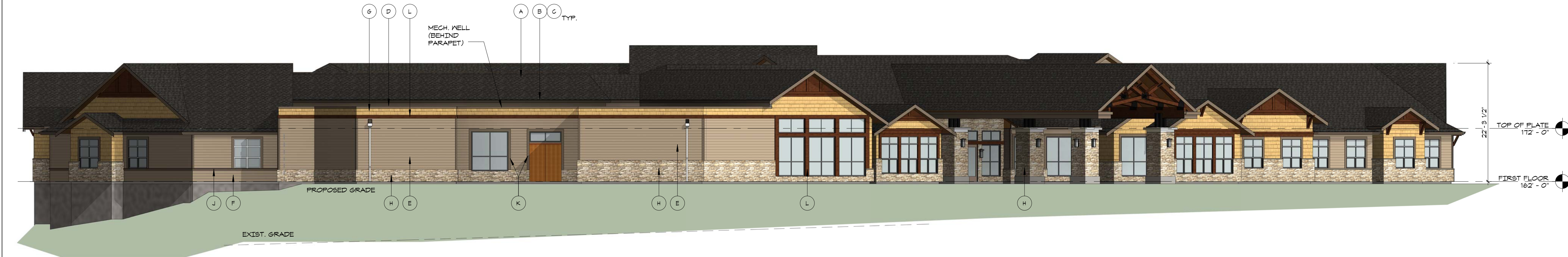
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1 EAST  
A-7 3/32" = 1'-0"



2 ENTRY  
A-7 3/32" = 1'-0"



3 NORTH  
A-7 3/32" = 1'-0"



4 SOUTH  
A-7 3/32" = 1'-0"

## KEYNOTES

- A ASPHALT SHINGLE ROOFING**  
25 YEAR ARCHITECTURAL COMPOSITION  
ROOFING: *Certaineed, Presidential Solars 'Weathered Wood'*
- B WOOD FASCIA**  
5/4x8 NOMINAL, WITH 1x3 NOMINAL  
WOOD TRIM AT RAKE CONDITIONS  
COLOR: *Benjamin Moore, Nightfall 1596*
- C ALUMINUM GUTTER/DOWNSPOUT**  
PAINT FINISH TO MATCH UNDERLYING BODY,  
TRIM OR FASCIA COLOR
- D METAL COPING OVER WOOD TRIM**  
MANUFACTURED METAL COPING O/ 5/4" x 10"  
NOMINAL WOOD TRIM WITH PAINTED FINISH  
COLOR: *MFR, SPEC*
- E FIBER CEMENT LAP SIDING**  
6.00" EXPOSURE, PAINTED FINISH  
COLOR: *Benjamin Moore, Rustic Taupe 999*
- F FIBER CEMENT LAP SIDING (ACCENT COLOR)**  
6.00" EXPOSURE, ACCENT PAINTED FINISH  
COLOR: *Benjamin Moore, Northwood Brown 1000*
- G FIBER CEMENT SHINGLE SIDING**  
6+ EXPOSURE, STRAIGHT EDGE PANEL, PAINTED FINISH  
COLOR: *Benjamin Moore, Hatheway Gold 194*
- H ADHERED MANUFACTURED STONE VENEER**  
DRYSTACK STONE VENEER WITH MATCHING  
WAINSCOT SILL CAP  
*Eldorado Stone, Alderwood*
- J WOOD TRIM, WATERTABLE DETAIL**  
5/4" x 8" NOMINAL, PAINTED FINISH  
THROUGH-WALL FLASHING AT TOP  
EDGE AT ALL HORIZONTAL CONDITIONS  
COLOR: *Benjamin Moore, Northwood Brown 1000*
- K WOOD TRIM, 6"**  
5/4" x 6" NOMINAL, PAINTED FINISH  
THROUGH-WALL FLASHING AT TOP  
EDGE AT ALL HORIZONTAL CONDITIONS  
COLOR: *Benjamin Moore, Northwood Brown 1000*
- L TIMBER / WOOD ACCENTS**  
STAINED WOOD ACCENTS, ASSEMBLY PER  
RELATED ARCHITECTURAL DETAILS  
COLOR: *Benjamin Moore, Hidden Valley 1134*

| Revision Schedule |             |      |
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## EXTERIOR ELEVATIONS

**Silverado - Issaquah**  
7932 Renton-Issaquah Rd SE  
Issaquah, WA 98027



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| DRAWN:    | Author               |
| CHKD:     | Checker              |

SHEET NO.:  
**A-7**









| Revision Schedule |             |      |
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RENDERINGS

Silverado - Issaquah  
7932 Renton-Issaquah Rd SE  
Issaquah, WA 98027



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| CHKCD:    | Checker  |                      |



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JOB NO.:  
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CHKCD: Checker



Silverado - Issaquah  
7932 Renton-Issaquah Rd SE  
Issaquah, WA 98027

RENDERINGS

| Revision Schedule |             |      |
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# SILVERADO - ISSAQUAH

JULY 10, 2015

## OWNER/DEVELOPER/CONSULTANTS

### OWNER:

NAME: PAUL MULLIN  
COMPANY: SILVERADO CARE  
ADDRESS: 6400 OAK CANYON, SUITE 200  
IRVINE, CA 92618  
PHONE: 949-240-2015  
EMAIL: PMULLIN@SILVERADOCARE.COM

### PROJECT ENGINEER:

NAME: PHIL CHEESMAN, PE  
COMPANY: PACE ENGINEERS, INC.  
ADDRESS: 11255 KIRKLAND WAY, SUITE 300  
KIRKLAND, WA 98033  
PHONE: 425-827-2014  
EMAIL: PHILC@PACEENGRS.COM

### DESIGN ARCHITECT:

NAME: JONATHAN MA  
COMPANY: DOUGLAS PANCAKE ARCHITECTS  
ADDRESS: 19000 MACARTHER BLVD, SUITE 500  
IRVINE, CA 92612  
PHONE: 949-720-3850  
EMAIL: JONATHANM@PANCAKEARCHITECTS.COM

### WETLANDS:

NAME: SCOTT BRAINARD  
COMPANY: WETLAND RESOURCES  
ADDRESS: 9505 19TH AVE SE, SUITE 106  
EVERETT, WA 98208  
PHONE: 425-337-3174  
EMAIL: SCOTT@WETLANDRESOURCES.COM

### APPLICANT:

NAME: JAMES BROWN  
COMPANY: WATTENBARGER ARCHITECTS  
ADDRESS: 2100 112TH AVE NE, SUITE 100  
BELLEVUE, WA 98004  
PHONE: 425-453-0606  
EMAIL: JBROWN@WATTENBARGER.COM

### GEOTECHNICAL:

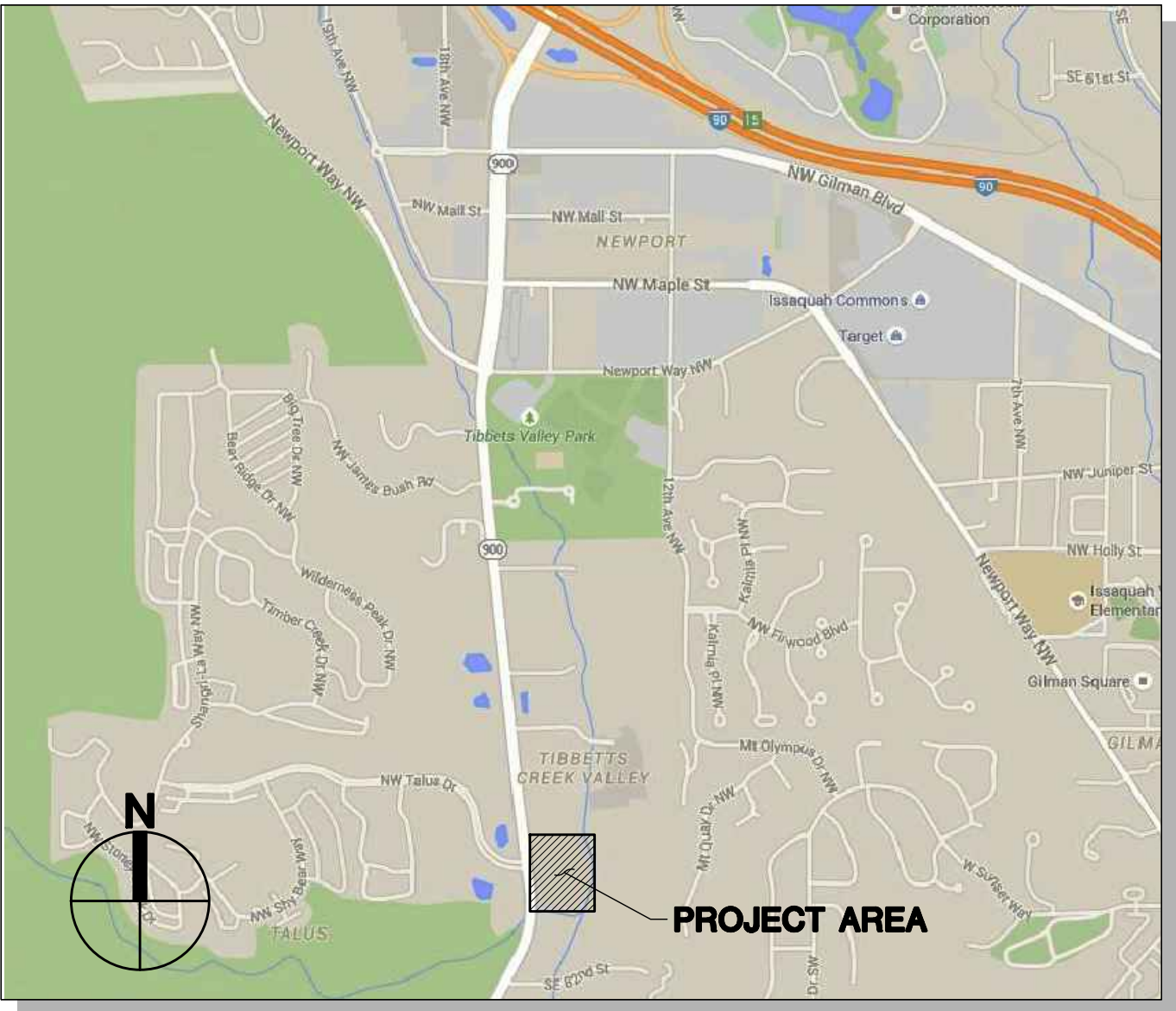
NAME: MATTHEW MILLER, PE  
COMPANY: ASSOCIATED EARTH SERVICES, INC  
ADDRESS: 911 5TH AVE  
KIRKLAND, WA 98033  
PHONE: 425-827-7701  
EMAIL: MMILLER@AESGEO.COM

### LANDSCAPE ARCHITECT:

NAME: RICHARD WARD  
COMPANY: RICHARD WARD ASSOCIATES  
ADDRESS: 2100 112TH AVE NE, SUITE 100  
BELLEVUE, WA 98004  
PHONE: 206-329-2110  
EMAIL: RWA1906@JUNO.COM

### TRAFFIC:

NAME: MIKE READ  
COMPANY: TRANSPORTATION ENGINEERS NORTHWEST  
ADDRESS: PO BOX 65254  
SEATTLE, WA 98155  
PHONE: 206-361-7333  
EMAIL: MIKEREAD@TENW.COM



## VICINITY MAP

SCALE: NTS



## SITE MAP

SCALE: 1"=100'

## SHEET LIST TABLE

| SHEET NUMBER | SHEET TITLE   |
|--------------|---|
| C0.0         | COVER SHEET   |
| C1.0         | GENERAL NOTES                                       |
| C2.0         | BOUNDARY SURVEY                                     |
| C2.1         | TOPOGRAPHIC SURVEY                                  |
| C3.0         | TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN    |
| C3.1         | TEMPORARY EROSION AND SEDIMENTATION CONTROL DETAILS |
| C4.0         | GRADING & DRAINAGE PLAN                             |
| C4.1         | GRADING & DRAINAGE DETAILS                          |
| C4.2         | INFILTRATION VAULT DETAILS                          |
| C5.0         | WATER PLAN  |
| C5.1         | WATER DETAILS                                       |
| C6.0         | SANITARY SEWER PLAN                                 |
| C6.1         | SANITARY SEWER DETAILS                              |
| C7.0         | COMPOSITE UTILITY PLAN                              |
| C8.0         | EMERGENCY VEHICLE ACCESS                            |
| C8.1         | DELIVERY VEHICLE ACCESS                             |
| C9.0         | OFFSITE WATER MAIN EXTENSION & DETAILS              |

## UTILITY PURVEYOURS

### WATER & SEWER:

COMPANY: CITY OF ISSAQUAH  
ADDRESS: 1775 12TH AVE W  
ISSAQUAH, WA 98027  
PHONE: 425-837-3100

### POWER & GAS:

COMPANY: PUGET SOUND ENERGY  
ADDRESS: 10885 NE 4TH ST  
BELLEVUE, WA 98004  
PHONE: 1-888-225-5773

## SITE INFORMATION

### ADDRESS:

7932 RENTON-ISSAQUAH ROAD SE  
ISSAQUAH, WA 98027

### DATUM:

HORIZONTAL DATUM: NAD 83-2011 WASHINGTON COORDINATE SYSTEM NORTH  
ZONE BASED ON GPS MEASUREMENTS CONSTRAINED TO THE WASHINGTON  
REFERENCE NETWORK.

VERTICAL DATUM: NAVD88 CONSTRAINED TO CITY OF BELLEVUE BENCHMARK  
V-429 AT THE EASTSIDE OF SR900 & TALUS DRIVE.

### BENCHMARK:

CITY OF BELLEVUE BENCHMARK V-429 AT THE EASTSIDE OF SR900 &  
TALUS DRIVE.

### LEGAL DESCRIPTION:

LEGAL DESCRIPTION: TAX LOT# 2924006-9041

LOT B OF ISSAQUAH LLA PLN 12-00027 RECORDED  
IN KING COUNTY RECORDS UNDER RECORDING NO. 2012121390009



11255 Kirkland Way, Suite 300  
Kirkland, WA 98033  
p. 425.827.2014 | f. 425.827.5043  
Civil | Structural | Planning | Survey  
www.paceengrs.com



FILE NAME: P:\P14\14537.00 SILVERADO--ISSAQUAH\CAD\ENGINEERING\SHEETS\P14537--GN.DWG  
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SCALE: 1"=10'-0" (AS SHOWN)  
XREF FILES: X14537\_BDR.

STANDARD GRADING & DRAINAGE PLAN NOTES

GENERAL NOTES:

- ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO THE CITY OF ISSAQUAH.
- THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE CITY OF ISSAQUAH ENGINEERING REVIEW CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE CITY PLAN REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY PRIOR TO CONSTRUCTION.
- APPROVAL OF THE ROAD, GRADING, PARKING AND DRAINAGE PLAN DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION (E.G. DOMESTIC WATER CONVEYANCE, SEWER CONVEYANCE, GAS, ELECTRICAL, ETC.)
- BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRE-CONSTRUCTION MEETING MUST BE HELD BETWEEN THE CITY, THE APPLICANT, AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- HOURS OF OPERATION FOR GRADING ACTIVITIES (SITE ALTERATION) ARE IN ACCORDANCE WITH CITY OF ISSAQUAH CODE
- IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK. EASEMENTS REQUIRE REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- FRANCHISED UTILITIES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS SHALL NOT BE CONSTRUCTED UNLESS AN APPROVED SET OF PLANS ARE SUBMITTED TO THE CITY OF ISSAQUAH PRIOR TO CONSTRUCTION.
- DATUM SHALL BE KCAS UNLESS OTHERWISE APPROVED BY THE CITY.
- DEWATERING SYSTEM (UNDERDRAIN) CONSTRUCTION SHALL BE WITHIN A RIGHT-OF-WAY OR APPROPRIATE DRAINAGE EASEMENT, BUT NOT UNDERNEATH THE ROADWAY SECTION. ALL UNDERDRAIN SYSTEMS WITHIN THE RIGHT-OR-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS.
- ALL UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT DENSITY, STANDARD PROCTOR.
- OPEN CUTTING OF EXISTING ROADWAYS FOR NON-FRANCHISED UTILITY OR STORM WORK IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH CITY STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL APPLY. WORK IN RIGHT-OF-WAY IS NOT AUTHORIZED UNTIL A TRAFFIC CONTROL PLAN IS APPROVED BY THE CITY OF ISSAQUAH.

DRAINAGE NOTES:

- PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO THE CITY OF ISSAQUAH PRIOR TO THE CONSTRUCTION OF THE DRAINAGE FACILITIES, PREFERABLY AT THE PRECONSTRUCTION MEETING.
- ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT SPECIFICATIONS. THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL, AND ANY REQUIRED PIPE BEDDING, TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE.
- STEEL PIPE SHALL BE ALUMINIZED, OR GALVANIZED WITH ASPHALT TREATMENT #1 OR BETTER INSIDE AND OUTSIDE.
- ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.
- ALL CATCH BASIN GRATES SHALL CONFORM TO CITY OF ISSAQUAH STANDARDS.
- ALL DRIVEWAY CULVERTS LOCATED WITHIN THE CITY RIGHT-OF-WAY SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 3:1 SLOPE FROM THE EDGE OF THE DRIVEWAY TO THE BOTTOM OF THE DITCH. CULVERTS SHALL HAVE BEVELED END SECTIONS TO MATCH THE SIDE SLOPE.
- ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1 FOOT, AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8"/40%-70% PASSING; 2"- 4" ROCK/30%-40% PASSING; AND -2" ROCK/10%-20% PASSING. INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF ISSAQUAH STANDARDS.

STRUCTURAL NOTE:

- THESE PLANS ARE APPROVED FOR STANDARD ROAD AND DRAINAGE IMPROVEMENTS ONLY. PLANS FOR STRUCTURES SUCH AS BRIDGES, VAULTS, AND RETAINING WALLS REQUIRE A SEPARATE REVIEW AND APPROVAL BY THE CITY OF ISSAQUAH PRIOR TO CONSTRUCTION.

EROSION & SEDIMENT CONTROL RECOMMENDED CONSTRUCTION SEQUENCE:

- PRE-CONSTRUCTION MEETING.
- POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE NOTICE OF CONSTRUCTION SIGN).
- FLAG OR FENCE CLEARING LIMITS.
- INSTALL CATCH BASIN PROTECTION AS REQUIRED.
- GRADE AND INSTALL CONSTRUCTION ENTRANCE.
- INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
- CONSTRUCT SEDIMENT PONDS AND TRAPS.
- GRADE AND STABILIZE CONSTRUCTION ROADS.
- CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
- MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF ISSAQUAH STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY OF ISSAQUAH EROSION AND SEDIMENT CONTROL STANDARDS.
- COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING OR EQUIVALENT.
- STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
- SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BMPS REMOVED AS APPROPRIATE

CITY OF ISSAQUAH NOTES

WATER NOTES:

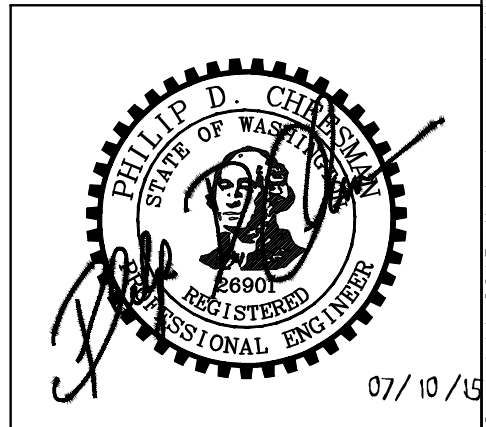
THESE DESIGN STANDARDS SET FORTH MINIMUM STANDARDS FOR THE PLANNING, DESIGN, AND CONSTRUCTION OF WATER FACILITIES. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS PREPARED BY THE ENGINEER AND APPROVED BY THE CITY. THESE STANDARDS DO NOT INCLUDE DESIGN OF SPECIAL FACILITIES, SUCH AS PUMP STATIONS OR RESERVOIRS. THESE SPECIAL FACILITIES REQUIRE UNIQUE DESIGN REQUIREMENTS AND WILL BE SUBJECT TO INDIVIDUAL REVIEW BY THE CITY. ALL WORK AND MATERIALS SHALL CONFORM TO AWWA STANDARDS. AS A PRELIMINARY GUIDE, THE FOLLOWING GENERAL STANDARDS OF CONSTRUCTION AND MATERIALS ARE SET FORTH:

- DESIGN SHALL COMPLY WITH THE ISSAQUAH MUNICIPAL CODE (IMC), POLICIES AND CRITERIA SET FORTH IN THE CITY OF ISSAQUAH'S WATER SYSTEM PLAN, AND DESIGN REQUIREMENTS AS DEFINED WITHIN THESE STANDARDS.
- PIPE SHALL BE CLASS 52 DUCTILE IRON.
- FITTINGS MUST BE DUCTILE IRON (CEMENT LINED).
- USE OF RESTRAINED JOINTS IS PREFERRED AS A STANDARD RESTRAINT SYSTEM. RESTRAINT SYSTEM SHALL BE CLEARLY IDENTIFIED ON THE PLANS AND RECORD DRAWINGS.
- PIPE RUNS FROM MAIN LINE TO STANDARD HYDRANTS LESS THAN 50 FEET IN LENGTH MUST BE A MINIMUM OF 6 INCHES. PIPE RUNS FROM MAIN LINE TO STANDARD HYDRANTS MORE THAN 50 FEET IN LENGTH MUST BE A MINIMUM OF 8 INCHES.
- THE MAXIMUM DISTANCE BETWEEN FIRE HYDRANTS IN SINGLE-FAMILY USE DISTRICT ZONES SHALL BE 500 FEET. THE MAXIMUM DISTANCE BETWEEN FIRE HYDRANTS IN COMMERCIAL, INDUSTRIAL, AND APARTMENT (INCLUDING DUPLEX) USE DISTRICT ZONES SHALL BE 300 FEET.
- ALL HYDRANTS NEWLY INSTALLED IN SINGLE-FAMILY RESIDENTIAL AREAS SHALL BE SUPPLIED BY NOT LESS THAN 8-INCH MAINS AND SHALL BE CAPABLE OF DELIVERING 1,000 G.P.M. FIRE FLOW OVER AND ABOVE AVERAGE MAXIMUM DEMANDS AT THE FARTHEST POINT OF THE INSTALLATION.
- AIR AND VACUUM RELEASE VALVES SHALL BE INSTALLED AT PRINCIPAL HIGH POINTS IN THE SYSTEM.
- DEAD-END LINES ARE NOT PERMITTED EXCEPT AS REQUIRED FOR FRONTAGE IMPROVEMENTS WHEN UNFEASIBLE DUE TO TOPOGRAPHY, OR INABILITY TO GAIN EASEMENTS, IN WHICH CASE HYDRANTS MAY BE PROVIDED AT THE END OF THE MAIN.
- SYSTEM IMPROVEMENTS REQUIRED FOR MULTI-FAMILY/COMMERCIAL/INDUSTRIAL DEVELOPMENTS WILL BE CONSIDERED AND DEFINED BY THE CITY AT THE TIME SERVICE IS REQUESTED. ALL COSTS FOR DOMESTIC SERVICE, FIRE PROTECTION, STORAGE, PUMPING FACILITIES AND FLOW RATE CONTROL OF THE SUPPLY WILL BE BORNE BY THE COMMERCIAL/INDUSTRIAL DEVELOPER.
- WORK SHALL BE DONE ONLY BY CONTRACTORS EXPERIENCED IN LAYING PUBLIC WATER MAINS.
- MAINS SHALL BE LAID ONLY IN DEDICATED STREETS OR IN EASEMENTS WHICH HAVE BEEN GRANTED TO THE CITY. A STREET IS NORMALLY NOT CONSIDERED DEDICATED UNTIL THE PLAT WHICH CREATED IT HAS BEEN FILED WITH THE KING COUNTY RECORDER.
- VALVES SHALL BE PLACED ON ALL BRANCHES FROM FEEDER MAINS, AT INTERSECTIONS, BETWEEN MAINS AND HYDRANTS, BETWEEN MAINS AND RESERVOIRS, AND BETWEEN MAINS AND PUMPS. NO LENGTH OF PIPE GREATER THAN 600 FEET SHALL BE LEFT WITHOUT VALVE CONTROL. A VALVE SHALL BE LOCATED AT THE END OF ALL DEAD-END LINES WHEN A FUTURE EXTENSION IS ANTICIPATED BY THE CITY ENGINEER.
- VALVED TEES AND CROSSES SHALL BE PROVIDED WHERE FUTURE EXTENSIONS ARE EXPECTED BY THE ENGINEER.
- PRESSURE REDUCING VALVES- MAIN LINE PRESSURE REDUCING STATIONS, BUILT ACCORDING TO THE CITY STANDARD DETAILS AND APPROVED AS TO SIZE BY THE CITY ENGINEER, SHALL BE INSTALLED WHERE REQUIRED TO MAINTAIN A MAXIMUM LINE PRESSURE OF 150 PSI. INDIVIDUAL PRESSURE-REDUCING VALVES ARE THE RESPONSIBILITY OF THE OWNER FOR ALL SERVICES ON MAINS WITH A PRESSURE OF MORE THAN 80 PSI AND SHALL BE LOCATED ON PRIVATE PROPERTY IN ACCORDANCE WITH THE UPC.
- PLACEMENT OF SURFACE APPURTENANCES (MANHOLE LIDS, WATER VALVE LIDS, ETC.) IN TIRE TRACK OF TRAFFIC LANES SHALL BE AVOIDED WHENEVER POSSIBLE. METER VAULTS SHALL BE LOCATED OUTSIDE THE PEDESTRIAN ACCESS ROUTE.
- BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED WHERE THE POSSIBILITY OF CONTAMINATION OF THE WATER SUPPLY SYSTEM EXISTS AND/OR AS REQUIRED BY THE CITY, AND SHALL MEET THE REQUIREMENTS OF THE WAC 246-290-490 "CROSS-CONNECTION CONTROL". ALL BACKFLOW PREVENTION ASSEMBLIES INSTALLED SHALL BE ON THE WASHINGTON STATE DEPARTMENT OF HEALTH (DOH) LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES, MOST RECENT EDITION AT THE TIME OF INSTALLATION, AND INSTALLED ACCORDING TO THE STANDARD DETAILS.

SEWER NOTES:

THE PROPOSED EXTENSION SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER AND SHALL CONFORM TO GOOD ENGINEERING PRACTICES, AS THE CITY DETERMINES, TO PROVIDE A DESIRABLE SYSTEM OF SANITARY SEWER COMPLYING WITH GOVERNMENTAL REGULATIONS AND REQUIRING A MINIMUM OF MAINTENANCE. THE SYSTEM MAY INCORPORATE THE FOLLOWING SPECIFIC FEATURES, BUT REGARDLESS OF THE FOLLOWING, THE DECISION OF THE CITY WITH RESPECT TO DESIGN SHALL CONTROL:

- THE EXTENSION SHALL INCORPORATE ADEQUATE CAPACITY TO PROVIDE FOR FUTURE EXPANSION OF THE SYSTEM IN CONFORMITY WITH THE CITY'S COMPREHENSIVE PLANNING AND FUTURE NEEDS.
- PIPE SIZES AND GRADES SHALL BE SELECTED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE. NO GRADE SHALL BE PERMITTED RESULTING IN A VELOCITY OF LESS THAN TWO FEET PER SECOND AT DESIGN FLOW. LINES SHALL BE ON STRAIGHT ALIGNMENT AND UNIFORM GRADE BETWEEN MANHOLES.
- ALL LINES SHALL BE A SUFFICIENT DEPTH TO DRAIN BASEMENTS AND BE PROTECTED AGAINST DAMAGE BY FROST AND TRAFFIC. LINES IN DEEP OR EXCESSIVELY WIDE TRENCHES SHALL BE SUITABLY REINFORCED TO PREVENT DAMAGE.
- NO STORM WATER, SURFACE WATER OR GROUND WATER SHALL BE DISCHARGED INTO SANITARY SEWERS.
- IF SLOPE AND VOLUME ARE SUCH THAT VELOCITIES ABOVE TWELVE FEET PER SECOND ARE REALIZED AT AVERAGE FLOW, SPECIAL PROVISIONS SHALL BE MADE FOR ANCHORING THE PIPE AND PROVIDING AGAINST EROSION AND SHOCK.
- ALL SANITARY SEWER DESIGN SHALL BE BY GRAVITY FLOW, EXCEPT BY SPECIAL ARRANGEMENT WITH THE CITY.
- A MANHOLE SHALL BE PROVIDED AT EACH GRADE, ALIGNMENT OR SIZE CHANGE. NO DISTANCES IN EXCESS OF 400 FEET SHALL BE PERMITTED BETWEEN MANHOLES IN LINES OF FIFTEEN (15) INCHES OR LESS.
- INsofar AS PRACTICALLY POSSIBLE, LINES SHALL BE LOCATED IN PUBLIC ROADS IN PREFERENCE TO EASEMENTS, AND LIFT STATIONS SHALL BE AVOIDED.
- ALL MANHOLES SHALL BE FORTY-EIGHT (48) INCH MINIMUM.
- ALL DESIGN SHALL BE IN ACCORDANCE WITH DEPARTMENT OF ECOLOGY "CRITERIA FOR SEWER WORKS DESIGN", LATEST REVISION.



07/10/16

WATTEN BARKER ARCHITECTURE

2102 112TH AVE. NORTHEAST  
SEASIDE, WA 98148  
TEL: 206-453-0906  
WWW.WATTENBARKER.COM

1105 Redmond Way, Suite 300  
Kirkland, WA 98033  
P: 425.827.2014 | F: 425.827.5043  
Civil | Structural | Mechanical | Electrical | Plumbing | Survey |  
paseango.com

PACE

A Engineering Services Company

Revision Schedule

| # | DESCRIPTION | DATE |
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GENERAL NOTES

Silverado - Issaquah

7902 Renton-Issaquah Rd SE, Issaquah, WA 98027

Silverado

S SILVERADO

lives enriched

JOB NO.:  
14537.00

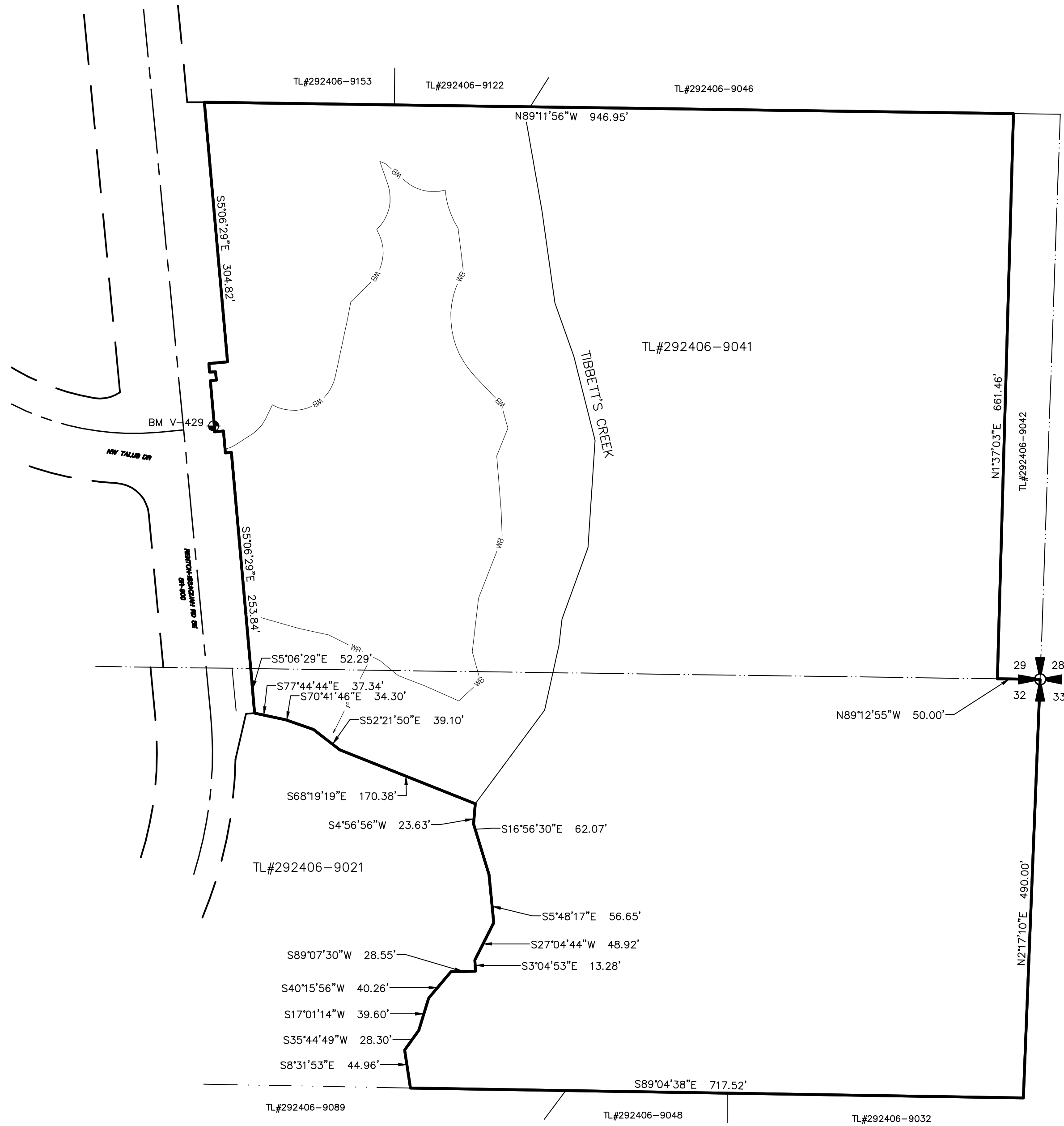
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7/9/2015

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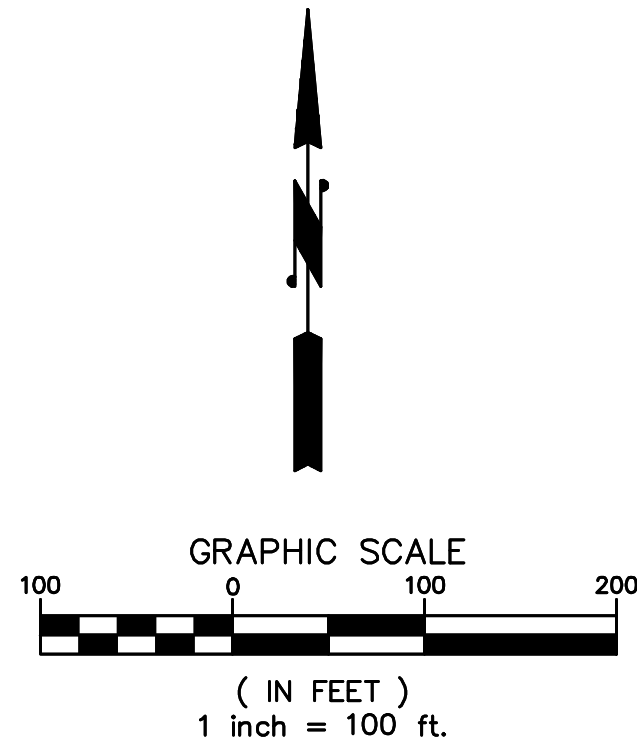
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USER: RYAN  
XREF FILES: 14537-TOPO, 14537-BDR-SRV,



SE 1/4, SECTION 29T. 24N., R. 6E., W.M.  
NE 1/4, SECTION 32T. 24N., R. 6E., W.M.



### NOTES:

HORIZONTAL DATUM: NAD 83-2011 WASHINGTON COORDINATE SYSTEM NORTH ZONE  
BASED ON GPS MEASUREMENTS CONSTRAINED TO THE WASHINGTON REFERENCE NETWORK.

VERTICAL DATUM: NAVD88 CONSTRAINED TO CITY OF BELLEVUE BENCHMARK V-429 AT THE EASTSIDE OF SR900 & TALUS DRIVE.

SITE AREA: TL#2924069041 7932 RENTON-ISSAQUAH RD SE

ALL DISTANCES SHOWN ARE GROUND DISTANCES UNLESS OTHERWISE NOTED.

THE LOCATION AND DESCRIPTION OF ALL SURVEY MARKERS SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS TAKEN ON DECEMBER 5, 2009, UNLESS OTHERWISE INDICATED.

WORK PERFORMED IN CONJUNCTION WITH THIS SURVEY UTILIZED THE FOLLOWING EQUIPMENT AND PROCEDURES: (A) 1" TRIMBLE S6 SERIES ELECTRONIC TOTAL STATION, MAINTAINED TO THE MANUFACTURER'S SPECIFICATIONS PER W.A.C. 332-130-100. (B) FIELD TRAVERSE, EXCEEDING REQUIREMENTS SET FORTH IN W.A.C. 332-130-090.

THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT PURPORT TO SHOW ALL EASEMENTS.

THIS TOPOGRAPHIC SURVEY DRAWING ACCURATELY PRESENTS SURFACE FEATURES LOCATED DURING THE COURSE OF THIS SURVEY. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED SOLELY UPON INFORMATION PROVIDED BY OTHERS AND PACE ENGINEERS, INC. DOES NOT ACCEPT RESPONSIBILITY OR ASSUME LIABILITY FOR THEIR ACCURACY OR COMPLETENESS. CONTRACTOR/ENGINEERS SHALL VERIFY EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION.

CALL FOR LOCATE: UTILITY LOCATION SERVICE: 811

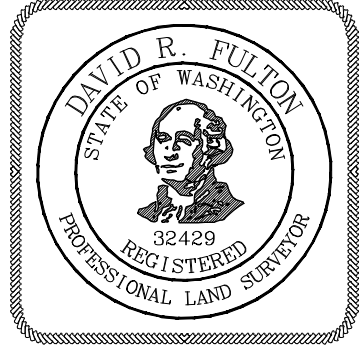
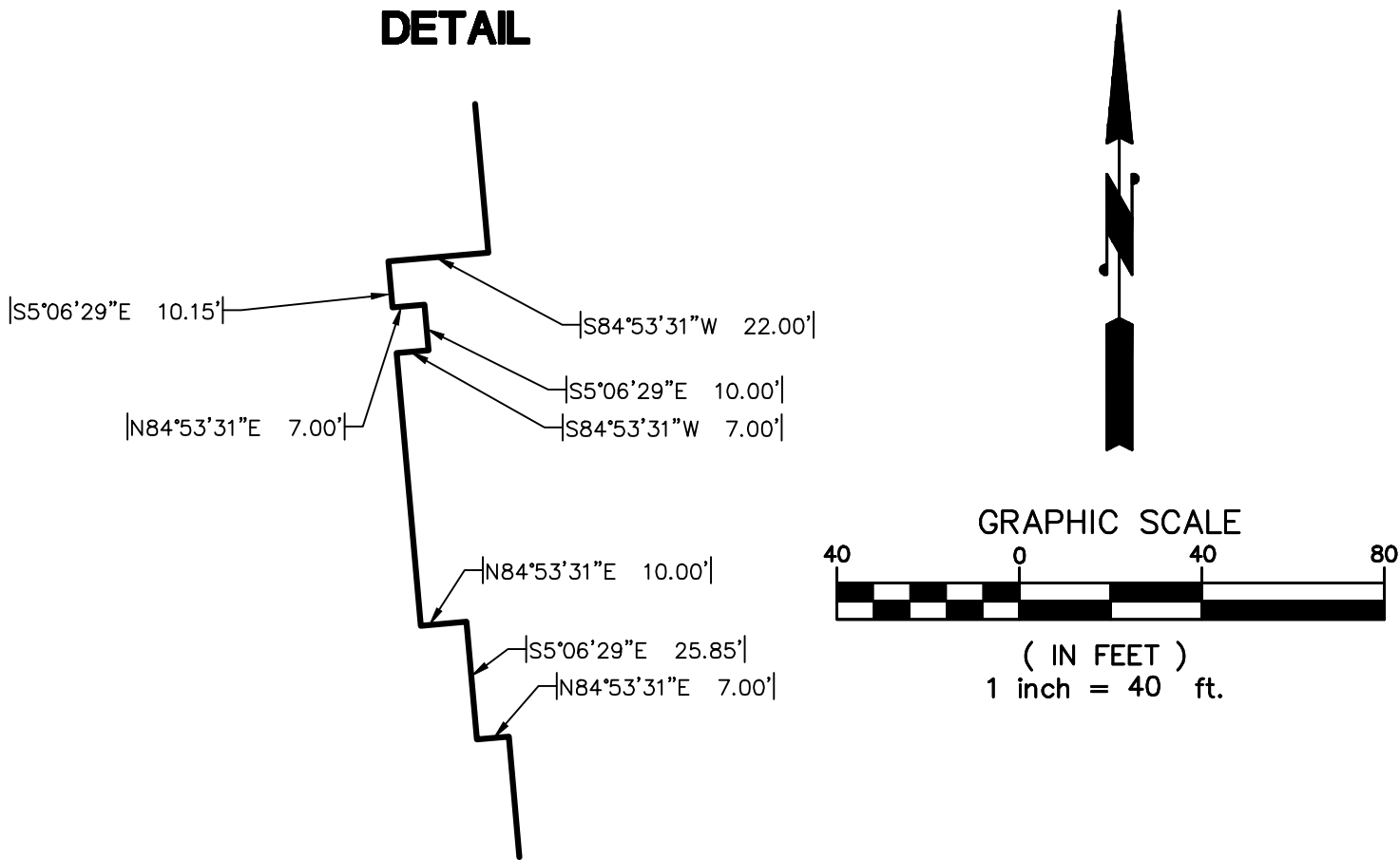
FEMA FLOOD PLAN DELINEATED FROM FIRM MAP# 53033C0693G AND 53033C0691K

### LEGAL DESCRIPTION

LEGAL DESCRIPTION: TAX LOT# 2924006-9041  
LOT B OF ISSAQUAH LLA PLN 12-00027 RECORDED  
IN KING COUNTY RECORDS UNDER RECORDING NO. 2012121390009

### LEGEND

- FOUND CASED MONUMENT
- SET MAGNETIC NAIL W/ WASHER
- SET 5/8" IRON REBAR W/ PLASTIC CAP STAMPED L.S. # UNLESS OTHERWISE STATED.
- CENTER LINES
- PROPERTY LINES
- RIGHT-OF-WAY LINES
- SS SANITARY SEWER LINE
- WL WETLAND FLAG LINE
- WB WETLAND BUFFER LINE



| Revision Schedule |             |      |
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| #                 | DESCRIPTION | DATE |
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### BOUNDARY SURVEY

Silverado - Issaquah  
7932 Renton-Issaquah Rd SE, Issaquah, WA 98027  
Silverado



JOB NO.:  
**14537.00**

PLOT DATE:  
7/9/2015

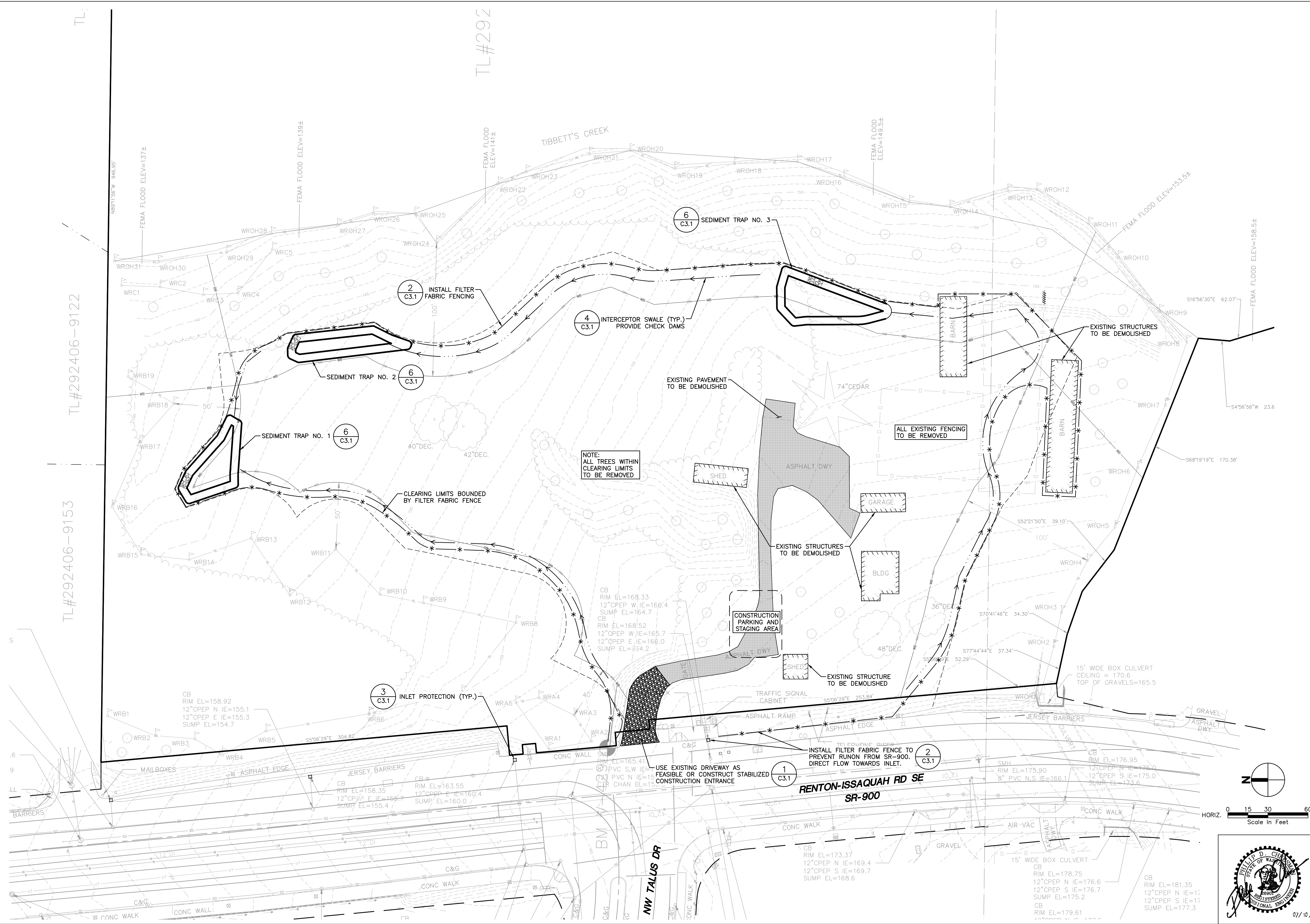
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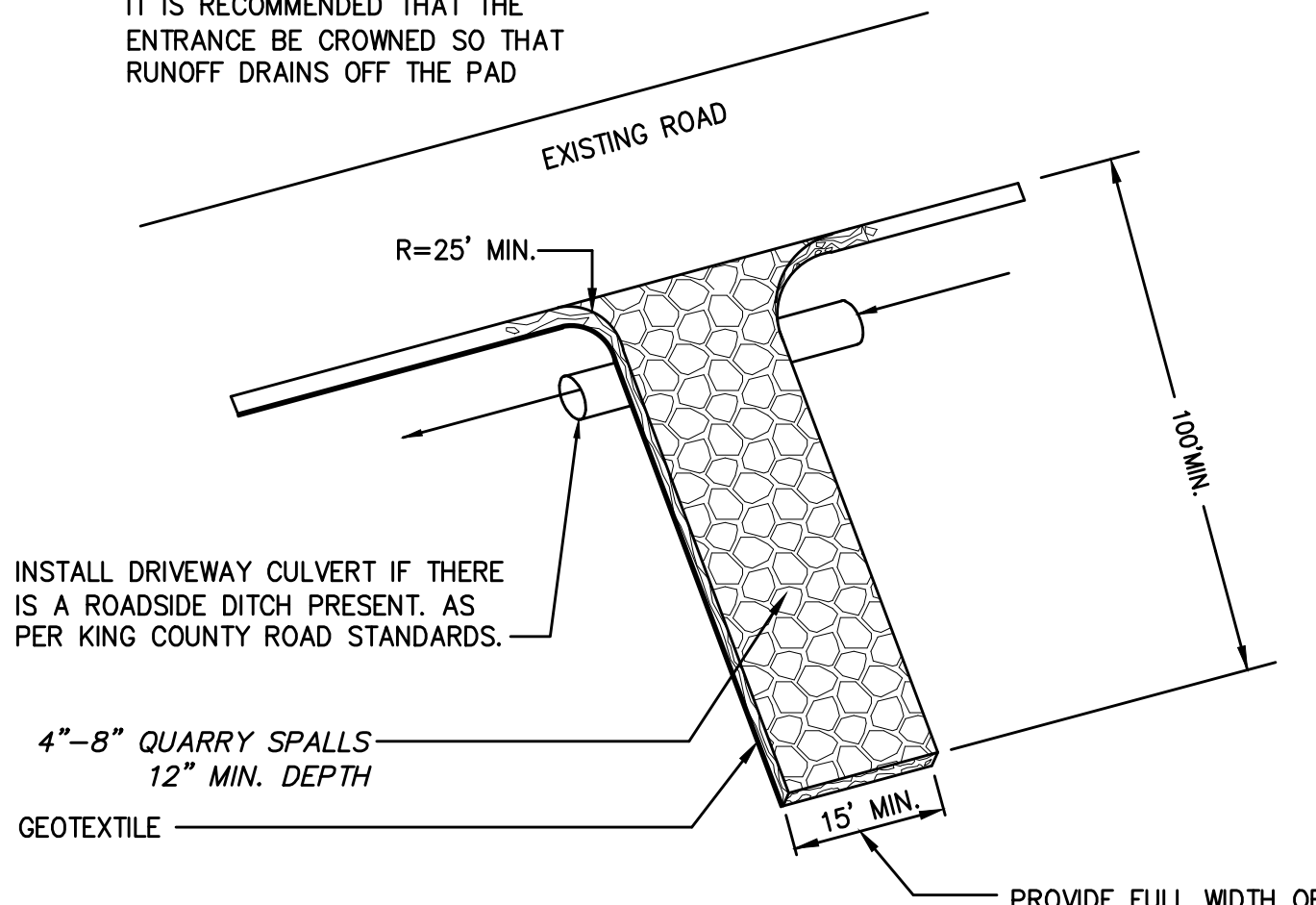


EROSION/SEDIMENTATION CONTROL NOTES:

- APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.).
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC COVER METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- ANY AREA NEEDING ESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE SURFACE WATER DESIGN MANUAL.
- PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DDES INSPECTOR FOR REVIEW.
- SPECIAL CARE MUST BE TAKEN TO PREVENT SEDIMENTATION AND COMPACTION WHERE PERVIOUS PAVEMENT IS PROPOSED. CONTRACTOR IS TO LEAVE OR PROVIDE 18" OF SOIL ABOVE FINISH GRADE ELEVATION WHERE PERVIOUS PAVEMENT IS PROPOSED TO PREVENT CLOGGING OF UNDERLYING SOILS BEFORE PERVIOUS PAVEMENT IS CONSTRUCTED.

AS PER KING COUNTY ROAD STANDARDS. DRIVEWAYS SHALL BE PAVED TO THE EDGE OF R-O-W PRIOR TO INSTALLATION OF THE CONSTRUCTION ENTRANCE TO AVOID DAMAGING OF THE ROADWAY

IT IS RECOMMENDED THAT THE ENTRANCE BE CROWNED SO THAT RUNOFF DRAINS OFF THE PAD

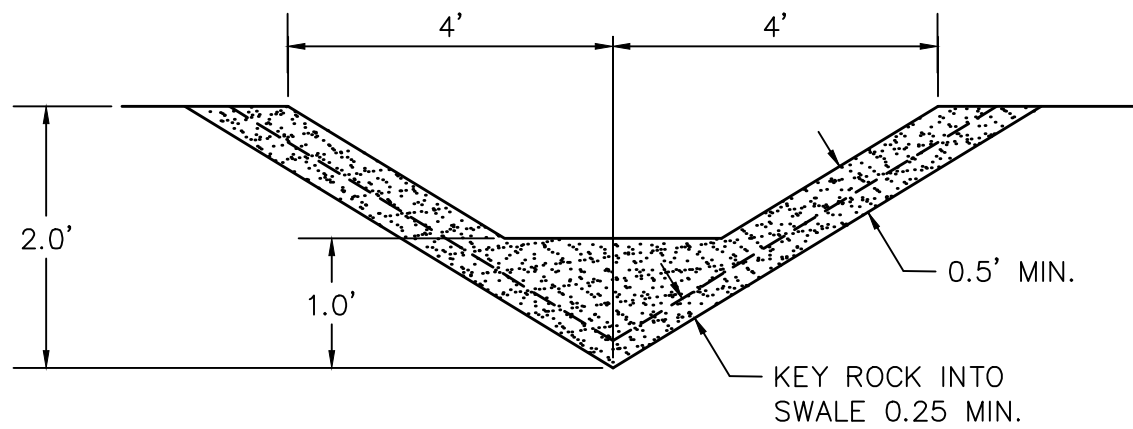


MAINTENANCE STANDARDS

- QUARRY SPALLS SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
- IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON THE AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
- ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON-SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.
- ANY ROCK SPALLS THAT ARE LOOSENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
- IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCE(S), FENCING SHALL BE INSTALLED TO CONTROL TRAFFIC.

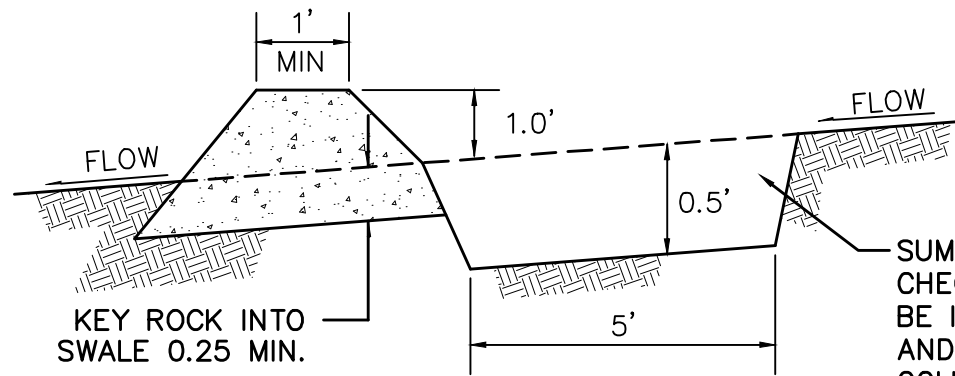
STABILIZED CONSTRUCTION ENTRANCE

SCALE: NTS



INTERCEPTOR DITCH X-SECTION & ROCK CHECK DAM

(FRONT VIEW)



ROCK CHECK DAM X-SECTION

(SIDE VIEW)

| DITCH SLOPE | CHECK DAM SPACING |
|-------------|-------------------|
| 0 - 5 %     | 150'              |
| 5 - 10 %    | 100'              |
| > - 10 %    | 50'               |

INTERCEPTOR DITCH WITH ROCK CHECK DAM

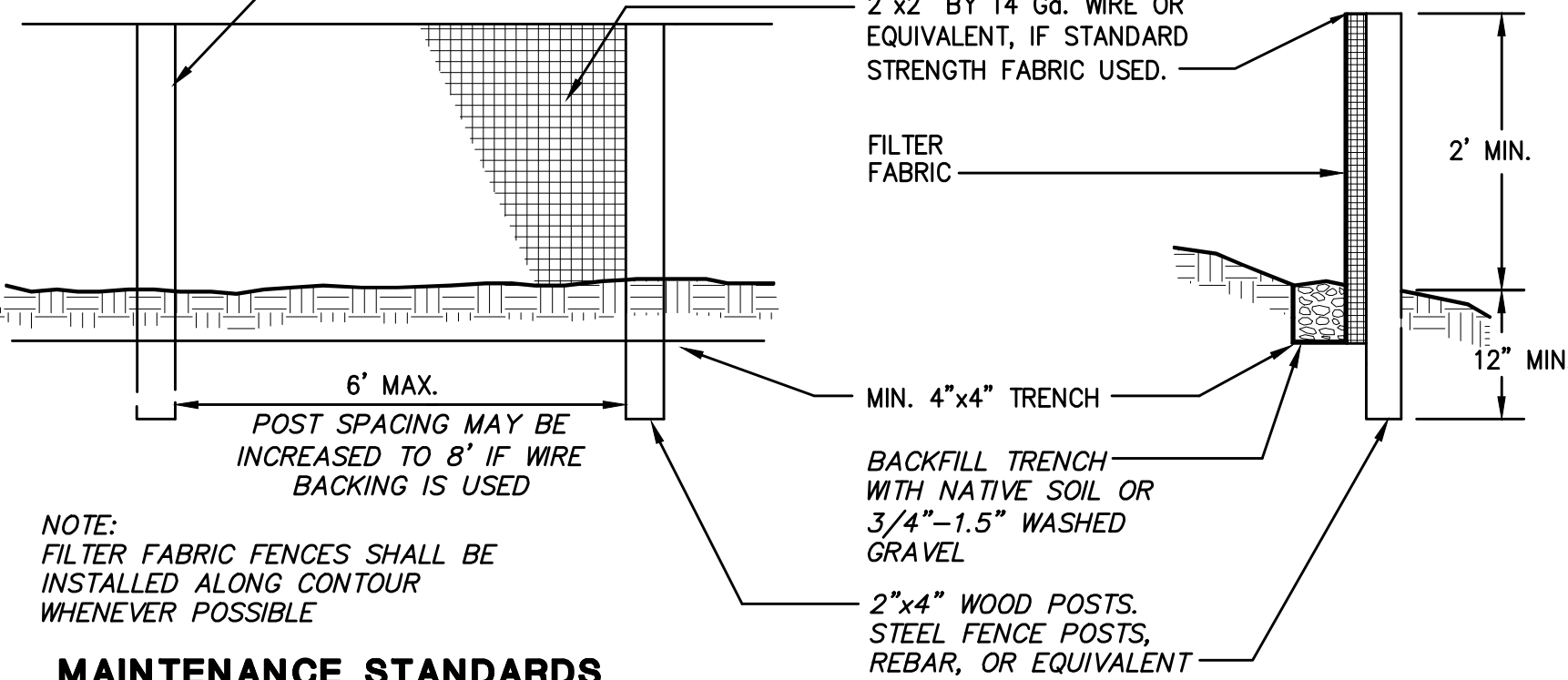
SCALE: NTS

DESIGN AND INSTALLATION SPECIFICATIONS

- THE GEOTEXTILE USED MUST MEET THE STANDARDS LISTED BELOW. A COPY OF THE MANUFACTURER'S FABRIC SPECIFICATIONS MUST BE AVAILABLE ON SITE.

|                                       |   |  |
|---------------------------------------|---|--|
| AOS (ASTM D-4751)                     | = | 30-100 SIEVE SIZE (0.60-0.15 mm) FOR SLIT FILM<br>50-100 SIEVE SIZE (0.30-0.15 mm) FOR OTHER FABRICS |
| WATER PERMITTIVITY (ASTM D-4491)      | = | 0.02 SEC MIN <sup>-1</sup>   |
| GRAB TENSILE STRENGTH (ASTM D-4632)   | = | 180 LBS MIN. FOR EXTRA STRENGTH FABRIC<br>100 LBS MIN. FOR STANDARD STRENGTH FABRIC                  |
| GRAB TENSILE ELONGATION (ASTM D-4632) | = | 30% MAX.   |
| ULTRAVIOLET RESISTANCE (ASTM D-4355)  | = | 70% MIN.   |
- STANDARD STRENGTH FABRIC REQUIRES WIRE BACKING TO INCREASE THE STRENGTH OF THE FENCE. WIRE BACKING OR CLOSER POST SPACING MAY BE REQUIRED FOR EXTRA STRENGTH FABRIC IF FIELD PERFORMANCE WARRANTS A STRONGER FENCE.
- WHERE THE FENCE IS INSTALLED, THE SLOPE SHALL BE NO STEEPER THAN 2H:1V.

JOINTS IN FILTER FABRIC SHALL BE SPLICED AT POSTS. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO POSTS.



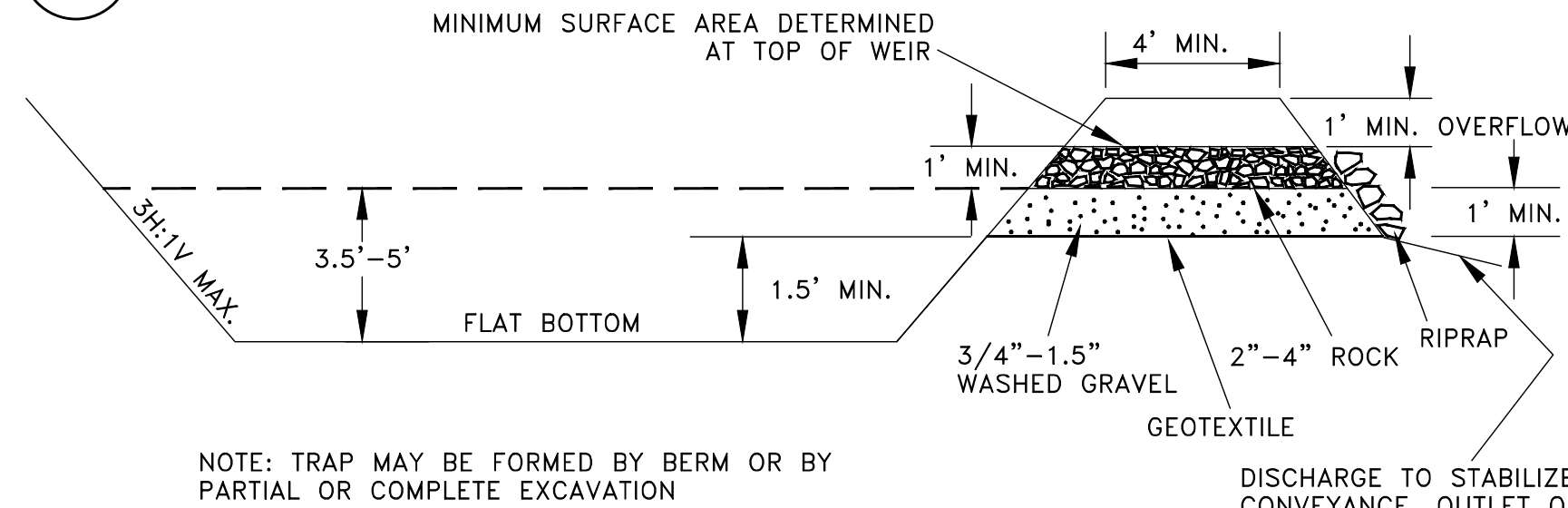
NOTE: FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE

MAINTENANCE STANDARDS

- ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
- IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
- IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE AND/OR REMOVE THE TRAPPED SEDIMENT.
- SEDIMENT MUST BE REMOVED WHEN IT IS 6" HIGH.
- IF THE FILTER FABRIC HAS DETERIORATED DUE TO THE ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

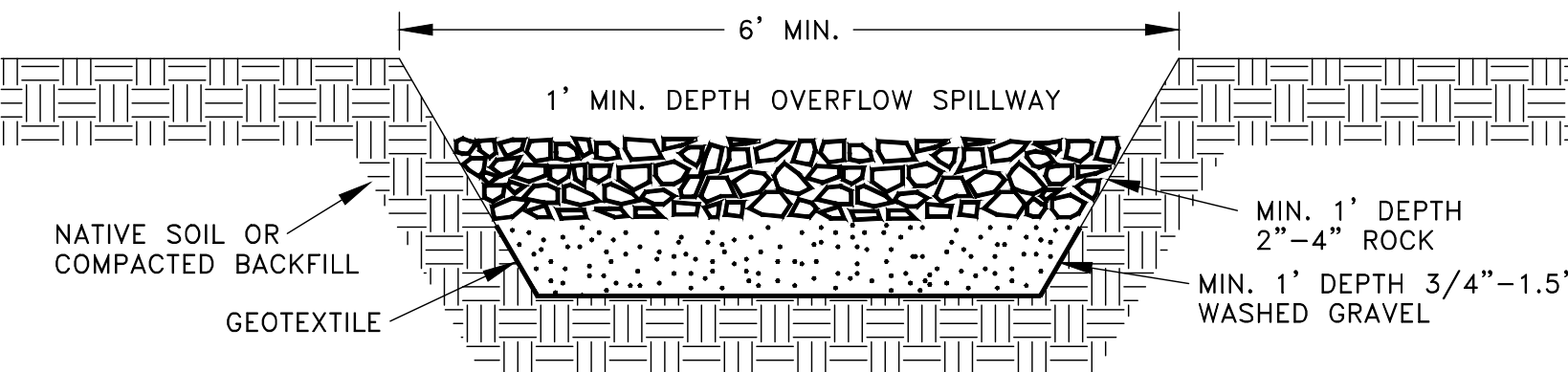
FILTER FABRIC FENCE DETAIL

SCALE: NTS



NOTE: TRAP MAY BE FORMED BY BERM OR BY PARTIAL OR COMPLETE EXCAVATION

CROSS-SECTION



TRAP OUTLET

MAINTENANCE STANDARDS

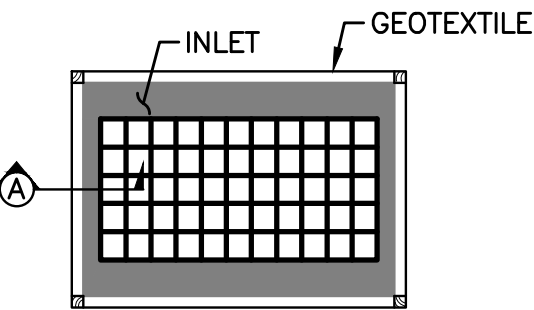
- SEDIMENT SHALL BE REMOVED FROM THE TRAP WHEN IT REACHES 1FT DEPTH.
- ANY DAMAGE TO THE TRAP EMBANKMENTS OR SLOPES SHALL BE REPAIRED.

SEDIMENT TRAP MINIMUM SURFACE AREAS

| TRAP  | AREA (SF) |
|-------|-----------|
| NO. 1 | 778       |
| NO. 2 | 552       |
| NO. 3 | 1225      |

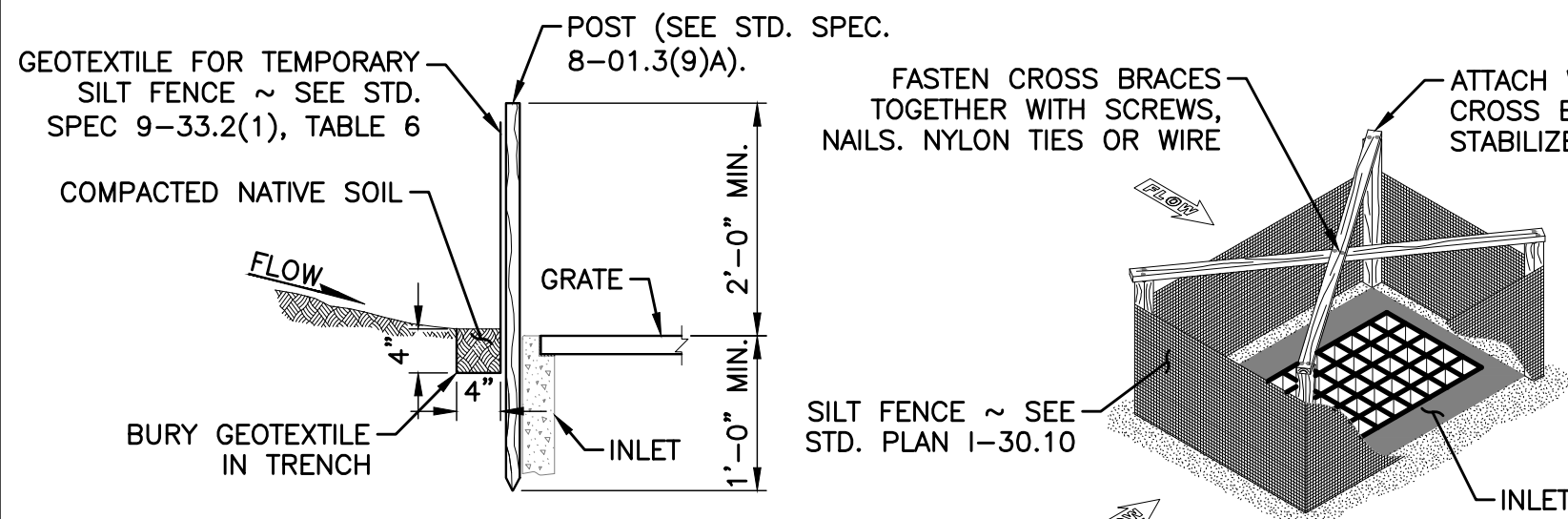
SEDIMENT TRAP

SCALE: NTS



PLAN VIEW

(CROSS BRACES NOT SHOWN)



SECTION A

ISOMETRIC VIEW

(ENTIRE FENCE NOT SHOWN FOR ILLUSTRATIVE PURPOSES)

INLET PROTECTION (WSDOT I-40.10-00)

SCALE: NTS

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DATE: 07/10/15  
TIME: 8:31:28 AM  
USER: RYAN  
XREF FILES: X14537\_SRV, X14537\_SP, X14537\_BDR,



TEMPORARY EROSION AND SEDIMENTATION CONTROL DETAILS

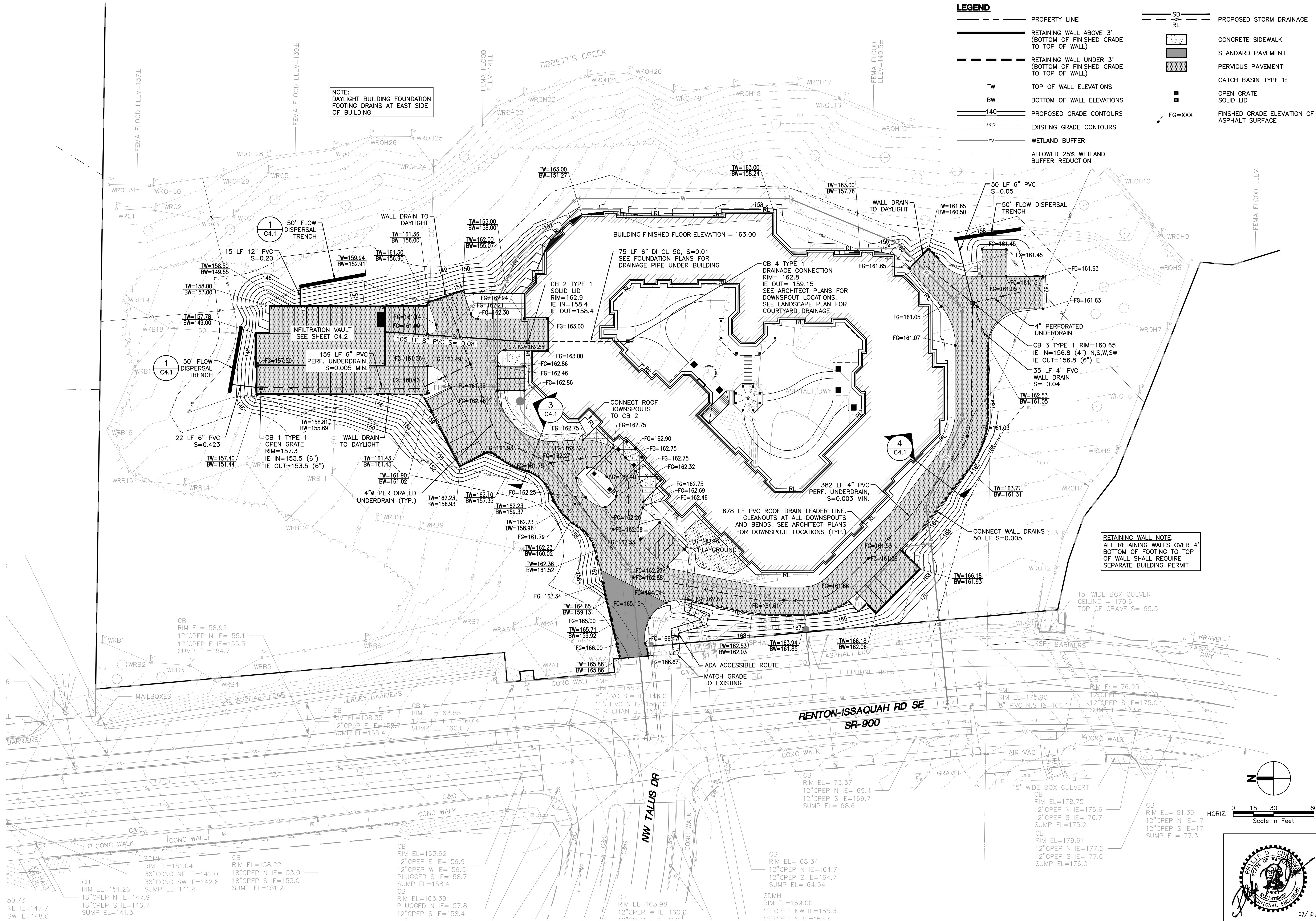
Silverado - Issaquah  
7902 Renton-Issaquah Rd SE, Issaquah, WA 98027  
Silverado



JOB NO.: 14537.00  
PLOT DATE: 7/9/2015  
DATE: 07/10/15  
SCALE: AS SHOWN  
DESIGNED: CC  
DRAWN: RD  
CHECKED: PC  
SHEET NO.: C3.1  
07/10/15



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USER: JMW  
XREF FILES: X14537\_HATCH, X14537\_GR, X14537\_SS, X14537\_WA, X14537\_SRV DEMO, X14537\_SD, X14537\_BDR,



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Silverado



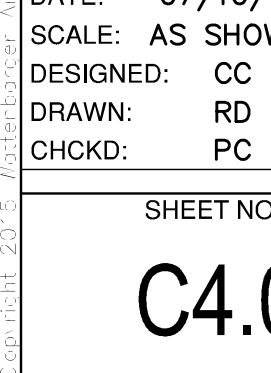
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**14537.00**

PLOT DATE:  
7/9/2015

DATE: 07/10/15  
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CHECKED: PC

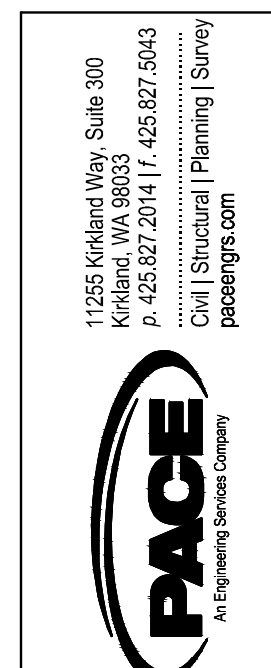
SHEET NO.:

**C4.0**



07/10/15

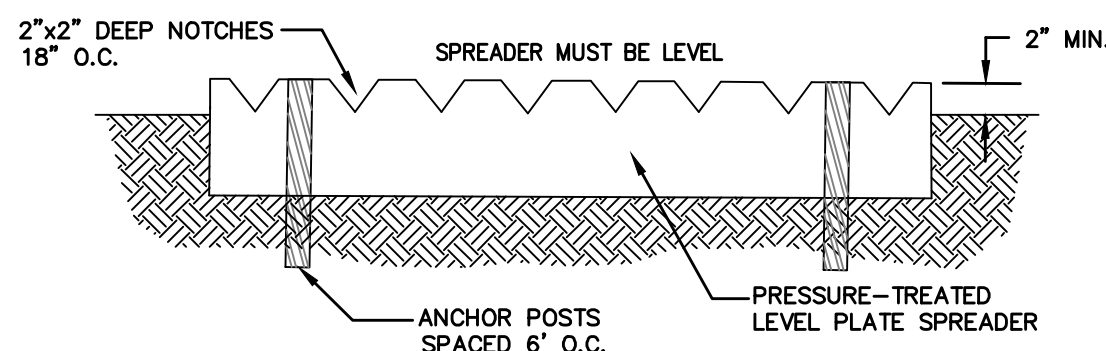
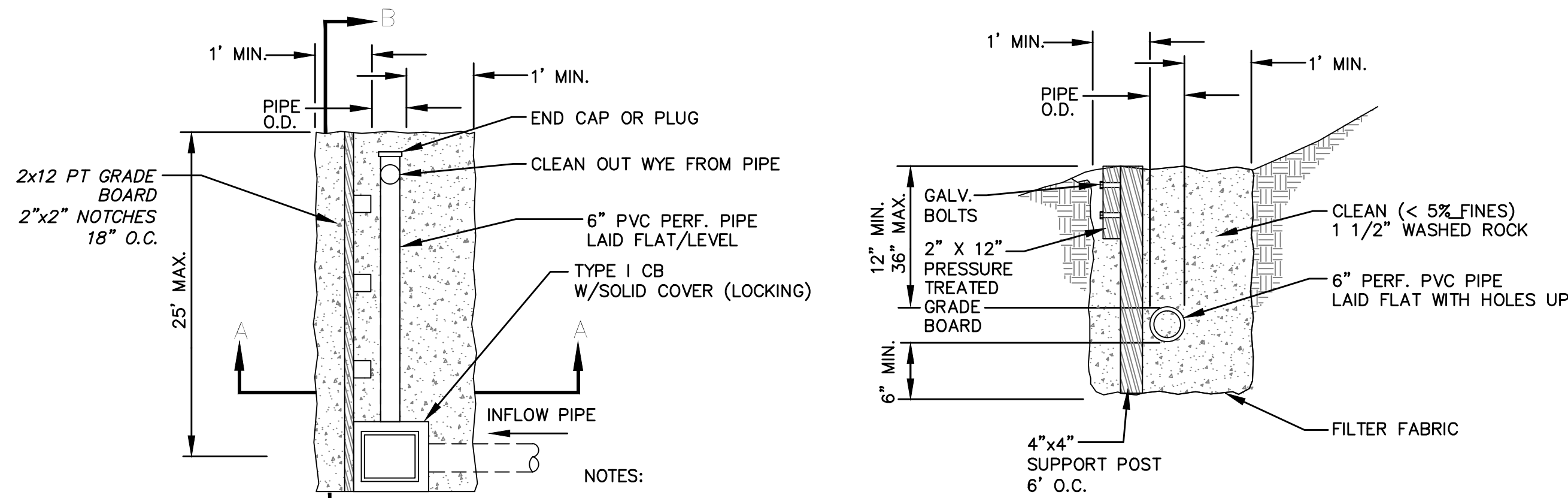
**WHA Architecture**  
WATTENBARGER  
2102 112TH AVE NE, SUITE 205  
SEASIDE, WA 98148  
TEL: 206-453-0906  
FAX: 206-453-1172  
www.wattenbarger.com



| Revision Schedule |             |
|-------------------|-------------|
| #                 | DESCRIPTION |
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GRADING & DRAINAGE  
PLAN



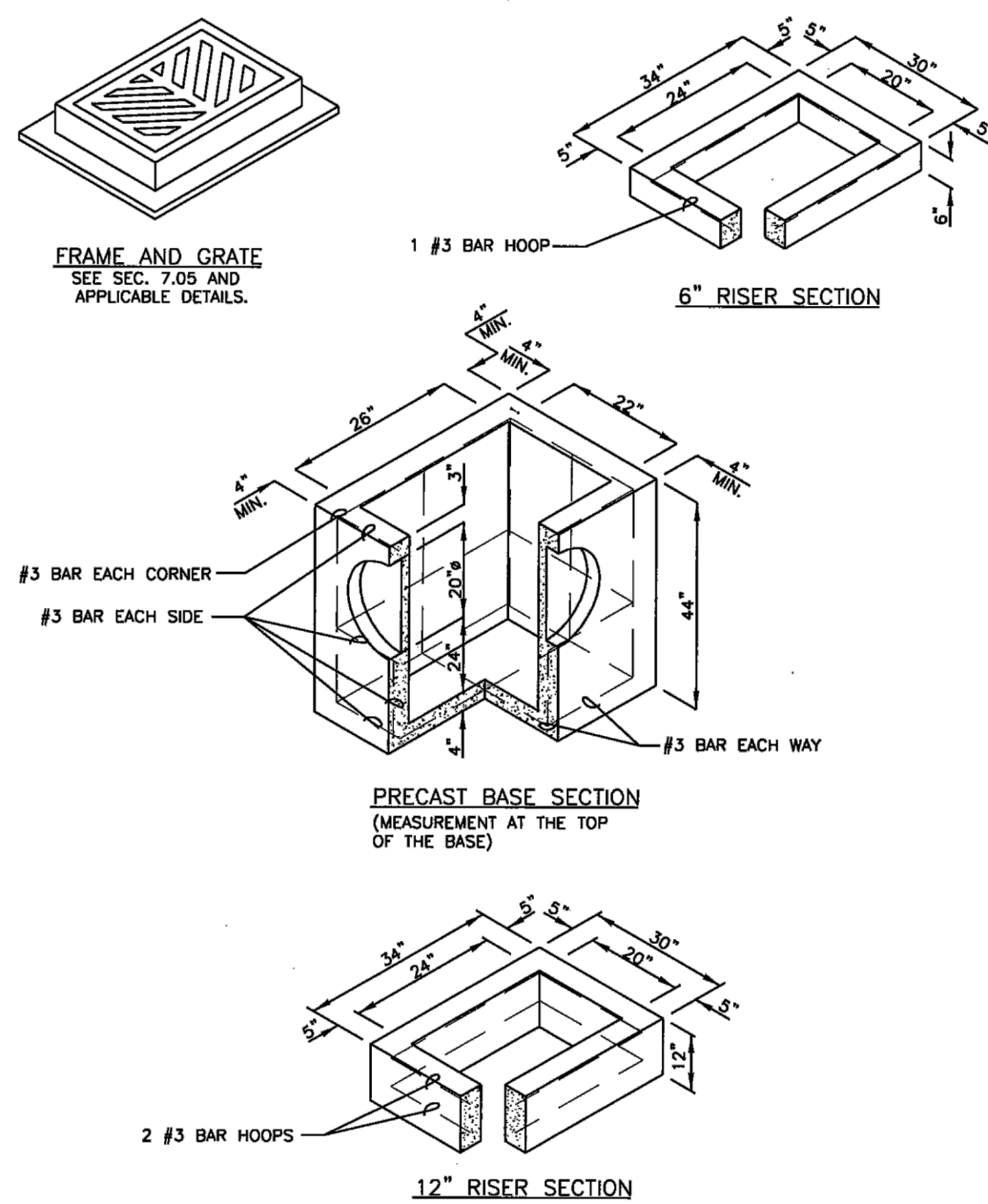
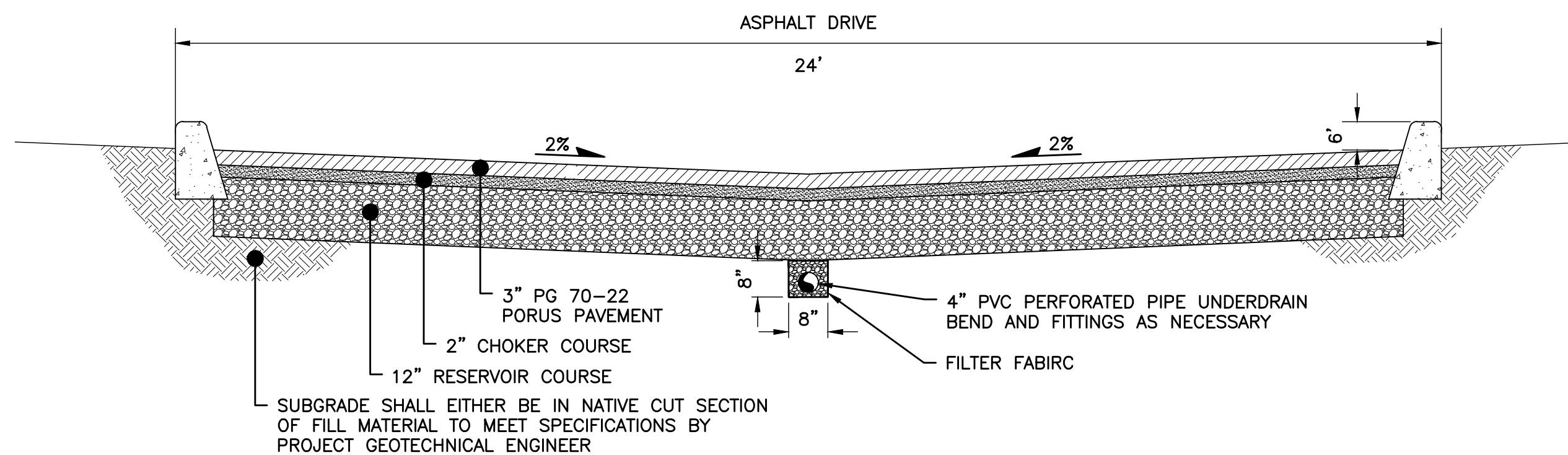


**TYPICAL FLOW DISPERSAL TRENCH**  
SCALE: NTS

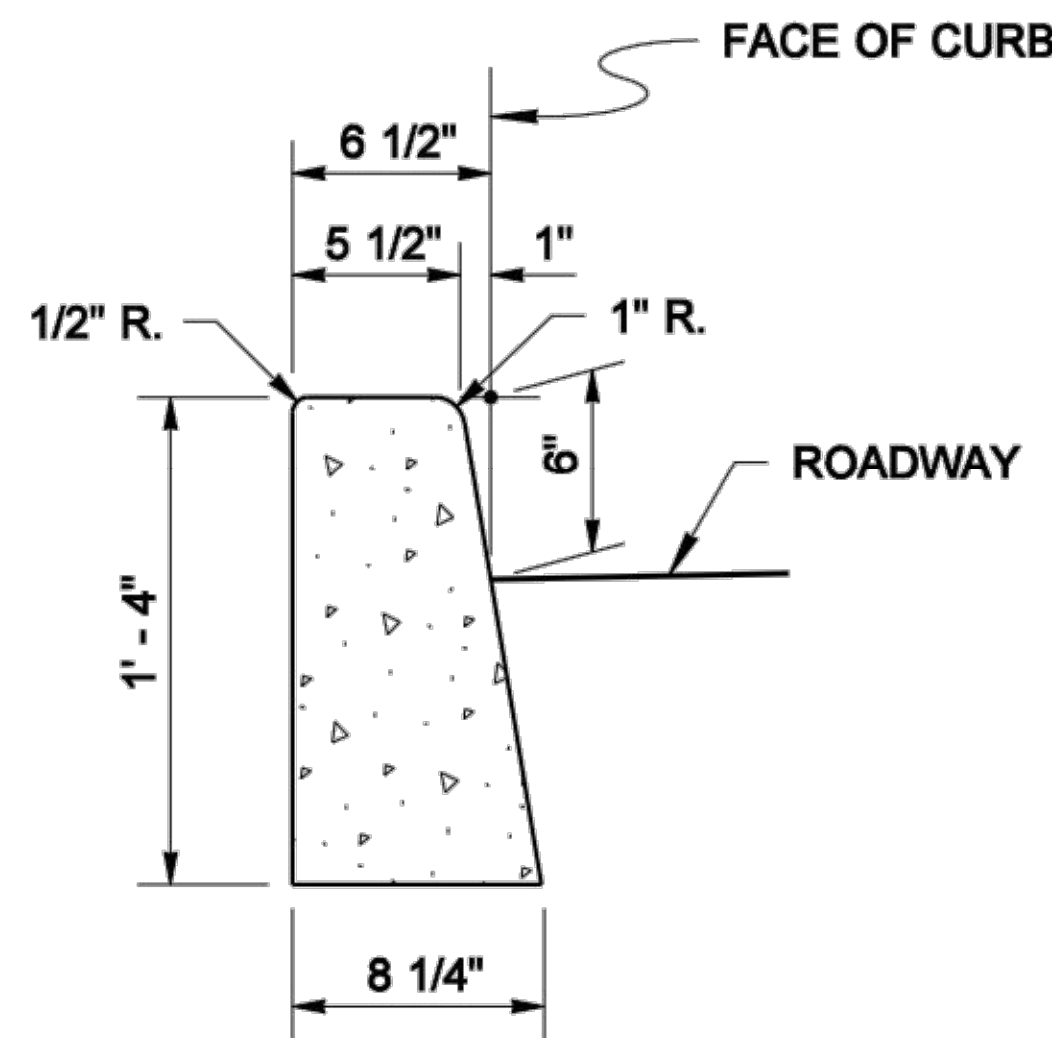
| PERVIOUS ASPHALT PAVEMENT AGGREGATE GRADATION |                 |
|---|-----------------|
| U.S. STANDARD SIEVE                           | PERCENT PASSING |
| 5/8"  | 100             |
| 1/2"  | 85-100          |
| 3/8"  | 55-75           |
| #4  | 10-25           |
| #8  | 5-10            |
| #40   | 0-5             |
| #200  | 0-3             |

| RESERVOIR COURSE AGGREGATE GRADATION (30% VOID SPACE MIN.) |                 |
|--|-----------------|
| U.S. STANDARD SIEVE  | PERCENT PASSING |
| 1"   | 100             |
| 3/4"   | 90-100          |
| 1/2"   | 2-80            |
| 3/8"   | 0-35            |
| #4   | 0-2             |
| #8   | 0-2             |
| #40  | 0-1             |
| #100   | 0-1             |
| #200   | 0-1             |

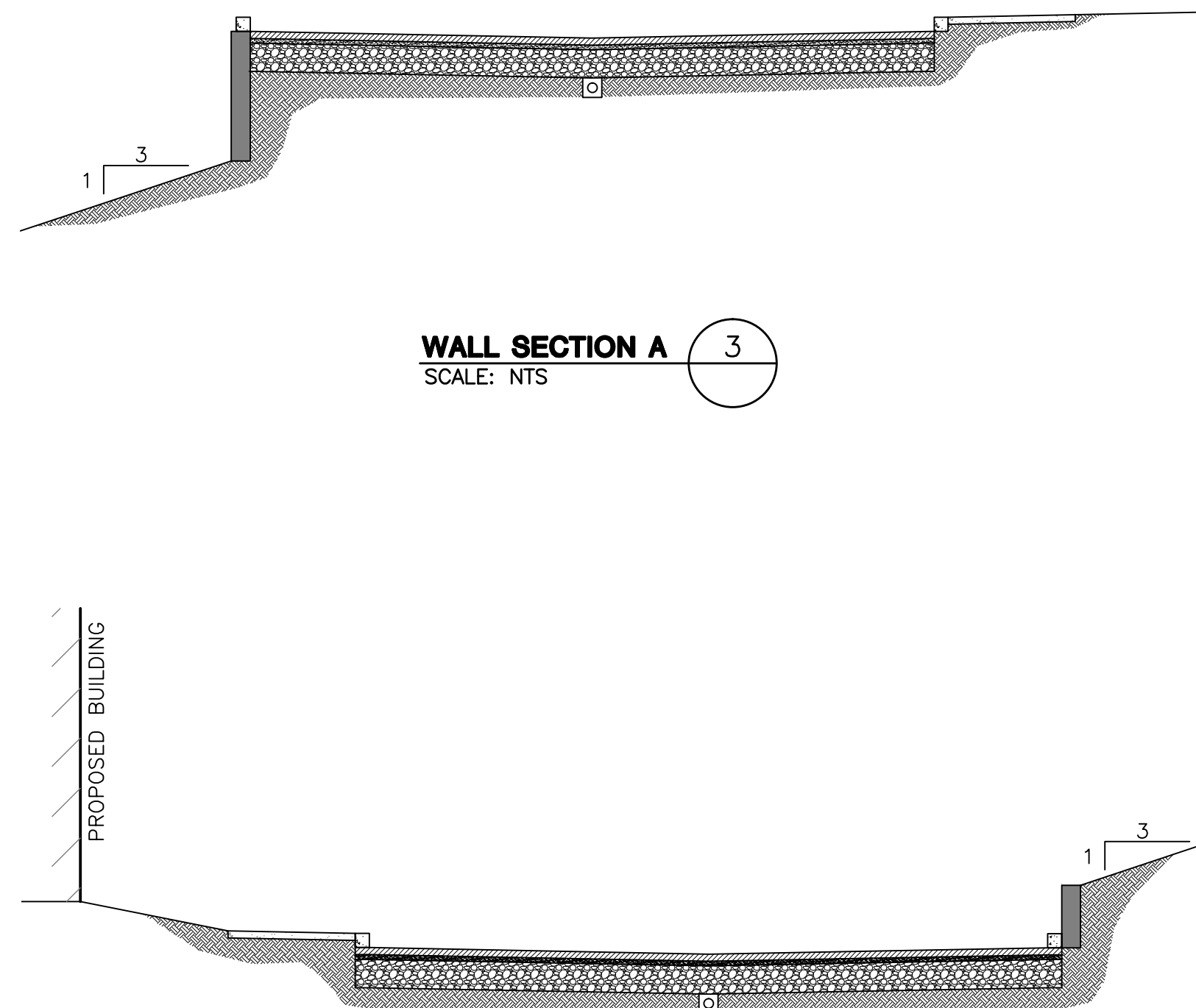
| PERVIOUS ASPHALT CHOKER COURSE AGGREGATE GRADATION |                 |
|--|-----------------|
| U.S. STANDARD SIEVE                                | PERCENT PASSING |
| 1"   | 95-100          |
| 3/4"   | 80-100          |
| 1/2"   | 60-80           |
| 3/8"   | 35-55           |
| #4   | 15-25           |
| #8   | 0-15            |
| #40  | 0-10            |
| #100   | 0-5             |
| #200   | 0-2             |



**CATCH BASIN TYPE 1**  
SCALE: NTS



**CEMENT CONCRETE TRAFFIC CURB**  
SCALE: NTS



**WALL SECTION B**  
SCALE: NTS

**Silverado - Issaquah**

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lives enriched

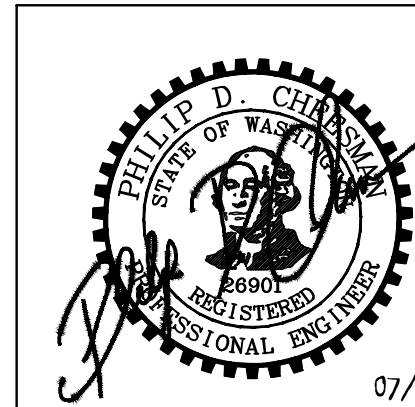
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PLOT DATE: 7/9/2015

DATE: 07/10/15  
SCALE: AS SHOWN  
DESIGNED: CC  
DRAWN: RD  
CHECKD: PC

SHEET NO.:

**C4.1**



07/10/15

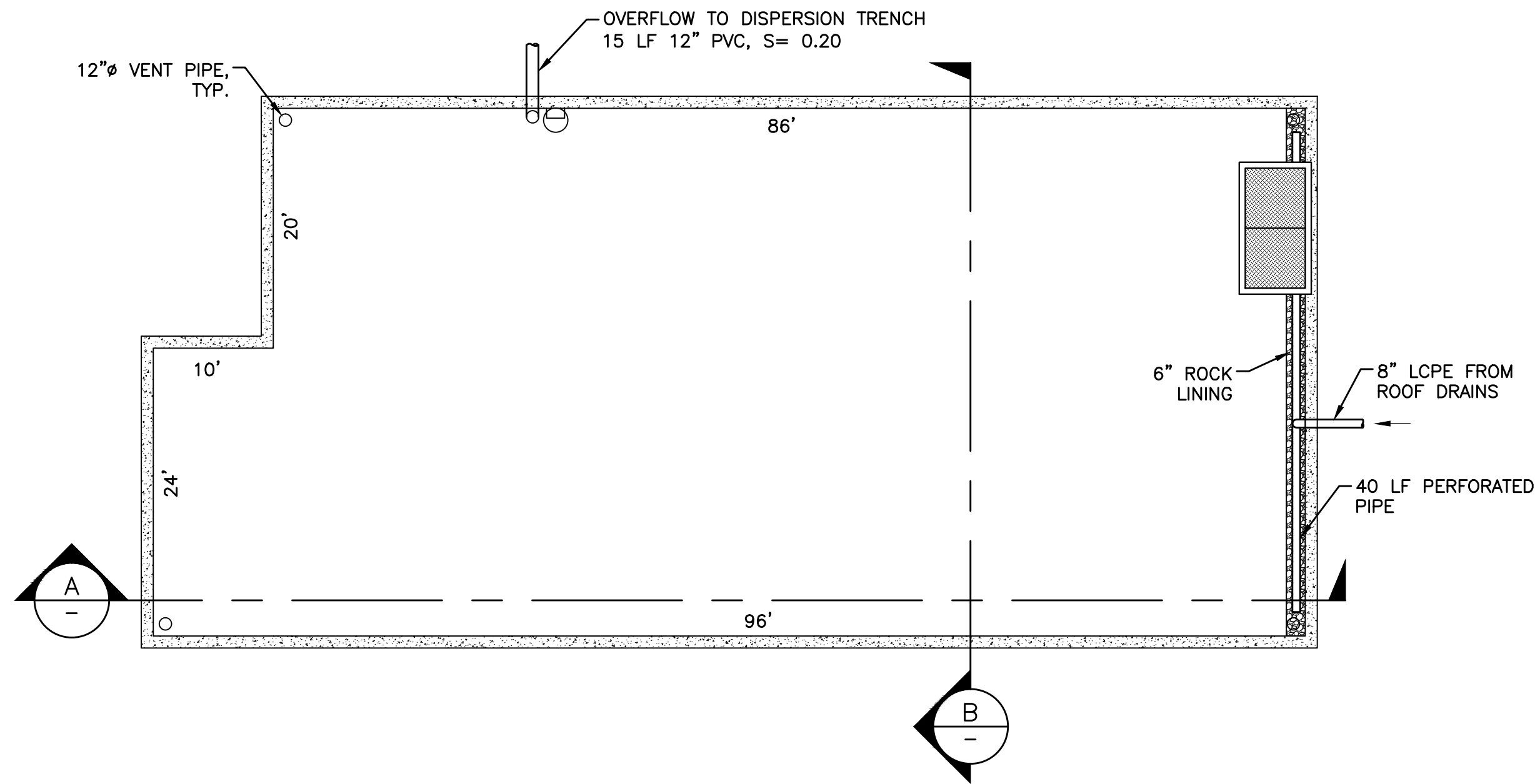


| Revision Schedule |             |
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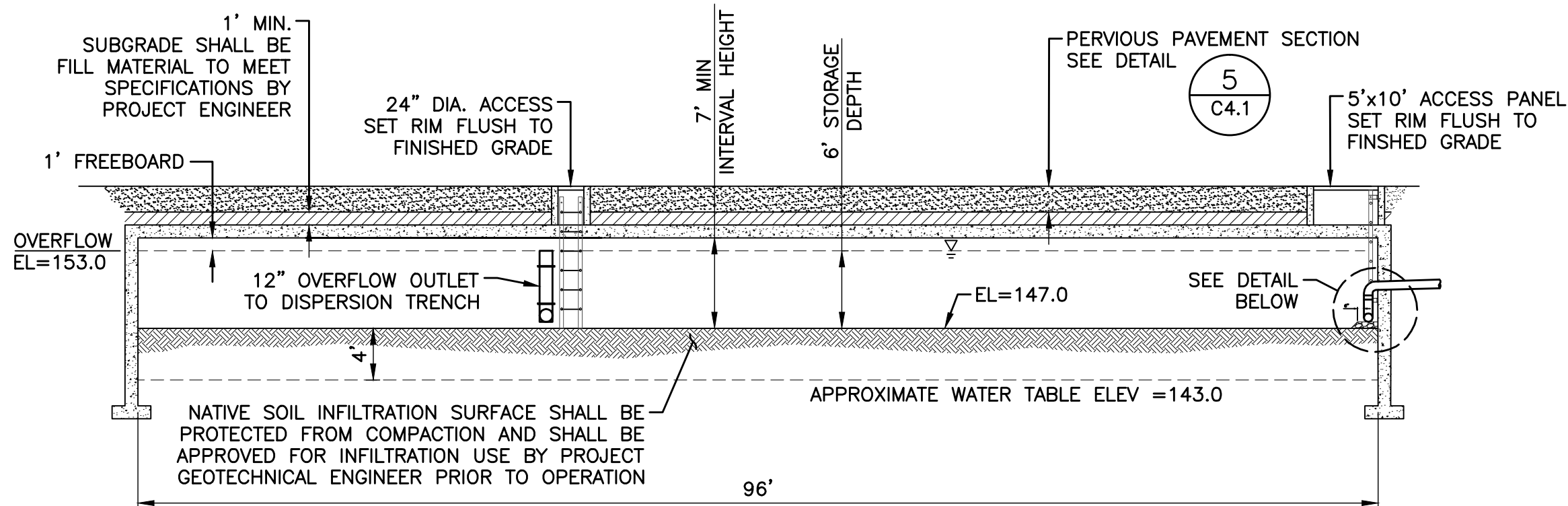
**GRADING & DRAINAGE**  
DETAILS



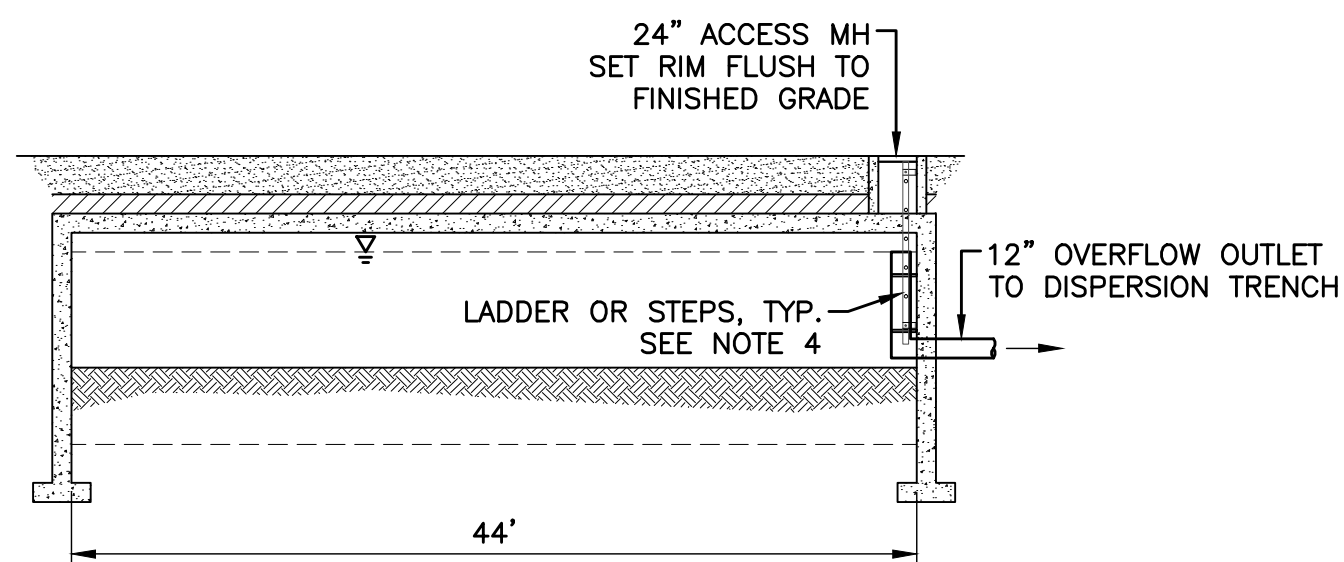
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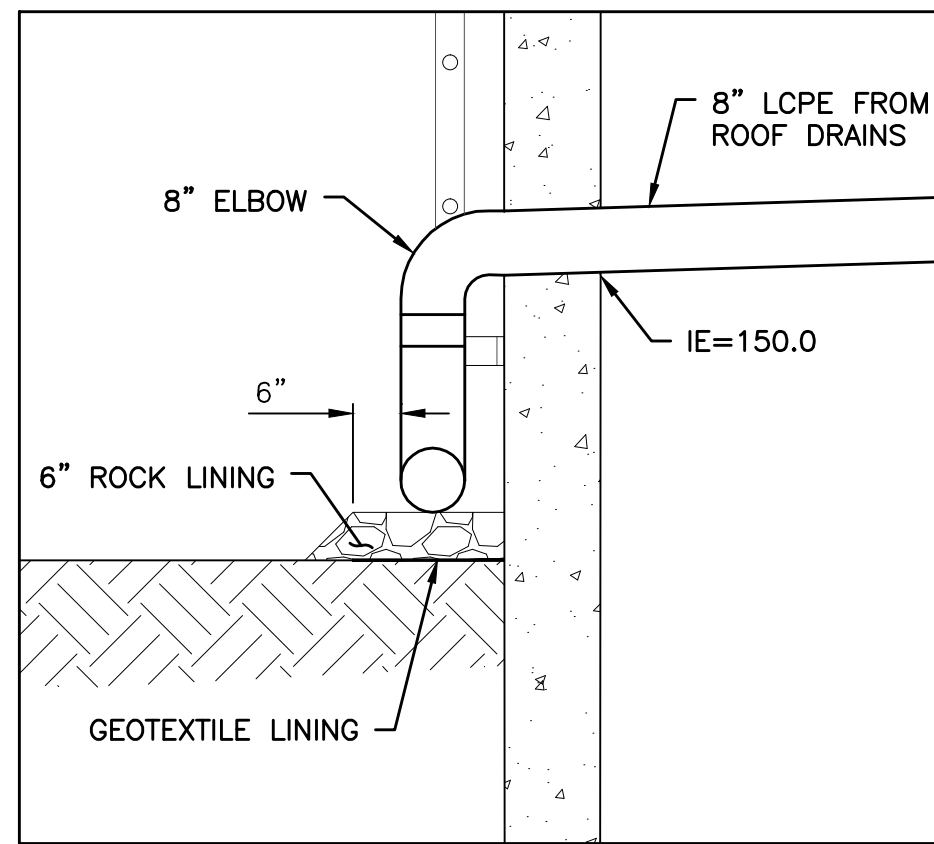
**STORM DETENTION VAULT**  
SCALE: 1" = 10'



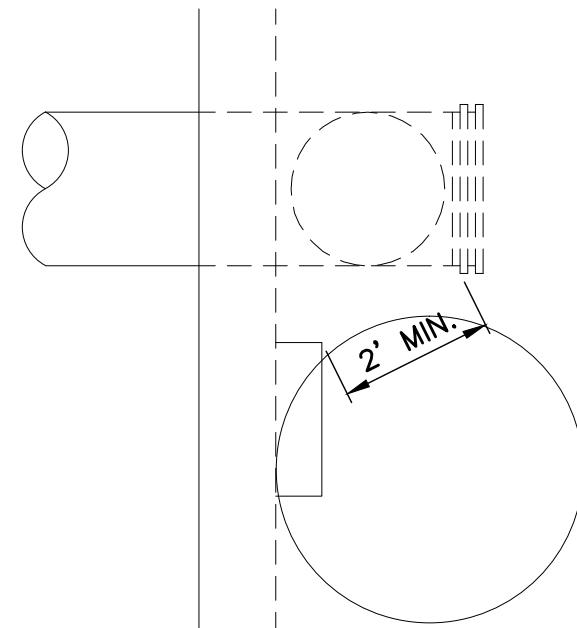
**SECTION A**  
SCALE: 1"=10'



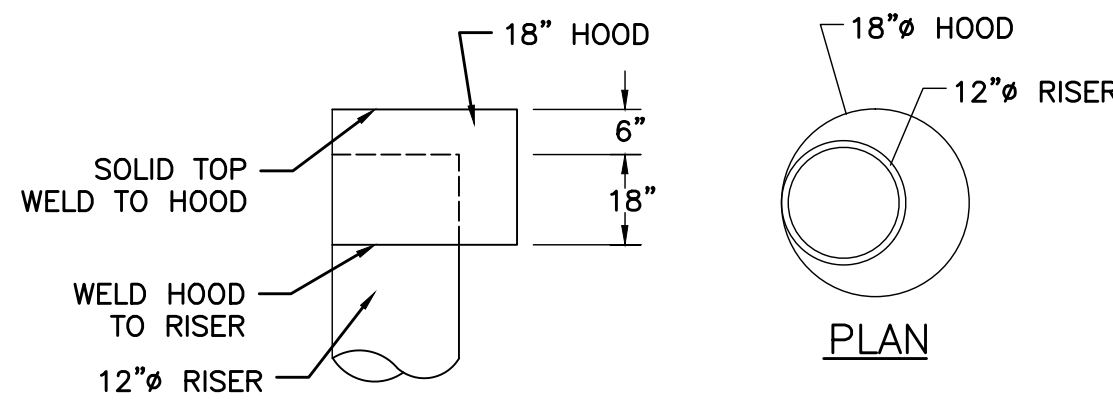
**SECTION B**  
SCALE: 1"=10'



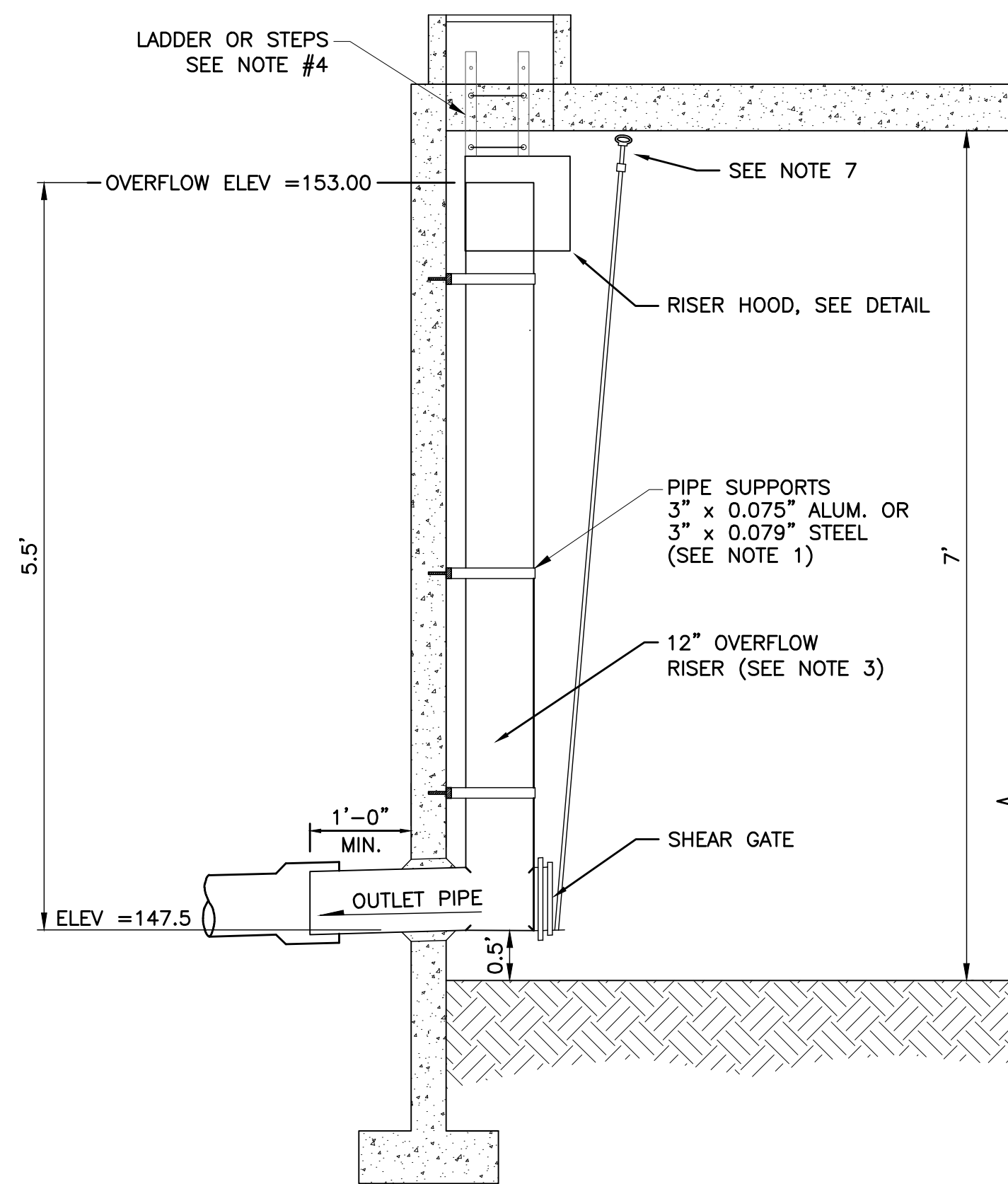
**INLET PIPE**  
SCALE: NTS



**OPENING DETAIL**



**RISER HOOD DETAIL**



**NOTES**

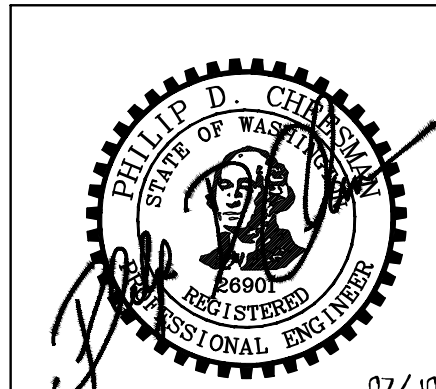
- The pipe supports and the flow restrictor shall be constructed of the same material and be anchored at a maximum spacing of 36". Attach the pipe supports to the manhole with 5/8" stainless steel expansion bolts or embed the supports into the manhole wall 2".
- The vertical riser stem of the flow restrictor shall be the same diameter as the horizontal outlet pipe with a minimum diameter of 8".
- The flow restrictor shall be fabricated from one of the following materials:  
0.060" Corrugated Aluminum Alloy Drain Pipe  
0.064" Corrugated Galvanized Steel Drain Pipe with Treatment 1  
0.064" Corrugated Aluminized Steel Drain Pipe  
0.060" Aluminum alloy flat sheet, in accordance with ASTM B 209, 5052 H32 or EPS  
High Density Polyethylene Storm Sewer Pipe
- The frame and ladder or steps are to be offset so that: the shear gate is visible from the top; the climb-down space is clear of the riser and gate; the frame is clear of the curb.
- The multi-orifice elbows may be located as shown, or all placed on one side of the riser to assure ladder clearance. The size of the elbows and their placement shall be specified in the Contract.
- Restrictor plate with orifice as specified in the Contract. The opening is to be cut round and smooth.
- The shear gate shall be made of aluminum alloy in accordance with ASTM B 26 and ASTM B 275, designation ZG32A, or cast iron in accordance with ASTM A 48, Class 30B.  
The lift handle shall be made of a similar metal to the gate (to prevent galvanic corrosion), it may be of solid rod or hollow tubing, with adjustable hook as required.  
A neoprene rubber gasket is required between the riser mounting flange and the gate flange.  
Install the gate so that the level-line mark is level when the gate is closed.  
The mating surfaces of the lid and the body shall be machined for proper fit.  
All shear gate bolts shall be stainless steel.
- The shear gate maximum opening shall be controlled by limited hinge movement, a stop tab, or some other device.
- Alternative shear gate designs are acceptable if material specifications are met and flange bolt pattern matches.

**CONTROL STRUCTURE**  
SCALE: NTS

LIVE STORAGE VOLUME:  
REQUIRED 23,760 CF  
PROVIDED 23,880 CF

**STRUCTURAL NOTE:**

**VAULT, LID AND GRATES SHALL BE DESIGNED TO MEET REQUIREMENTS FOR OVERBURDEN SUPPORT AND H-20 TRAFFIC LOADING. SEE STRUCTURAL PLANS FOR VAULT DESIGN UNDER SEPARATE COVER.**



07/10/15

11555 Kachess Hwy, Suite 300  
Kirkland, WA 98033  
p. 425.827.2014 | f. 425.827.5043  
www.paceseg.com | Planning | Survey  
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**PACE**  
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| Revision Schedule |             |
|-------------------|-------------|
| #                 | DESCRIPTION |
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Silverado

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lives enriched

JOB NO.:  
**14537.00**

PLOT DATE:  
7/9/2015

DATE: 07/10/15  
SCALE: AS SHOWN  
DESIGNED: CC  
DRAWN: RD  
CHCKD: PC

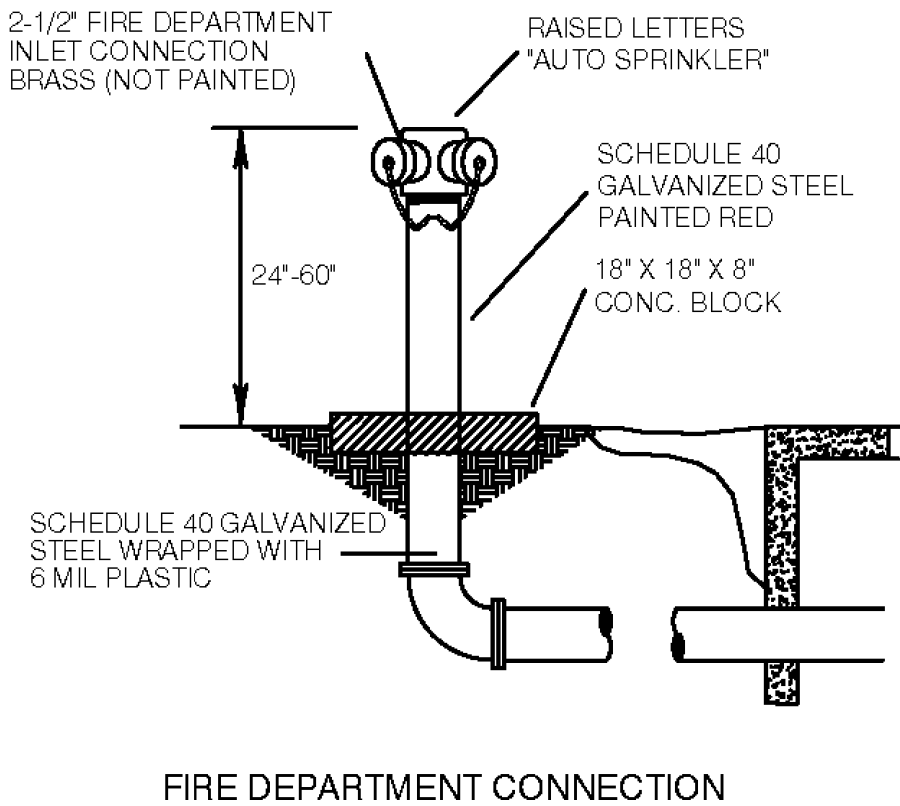
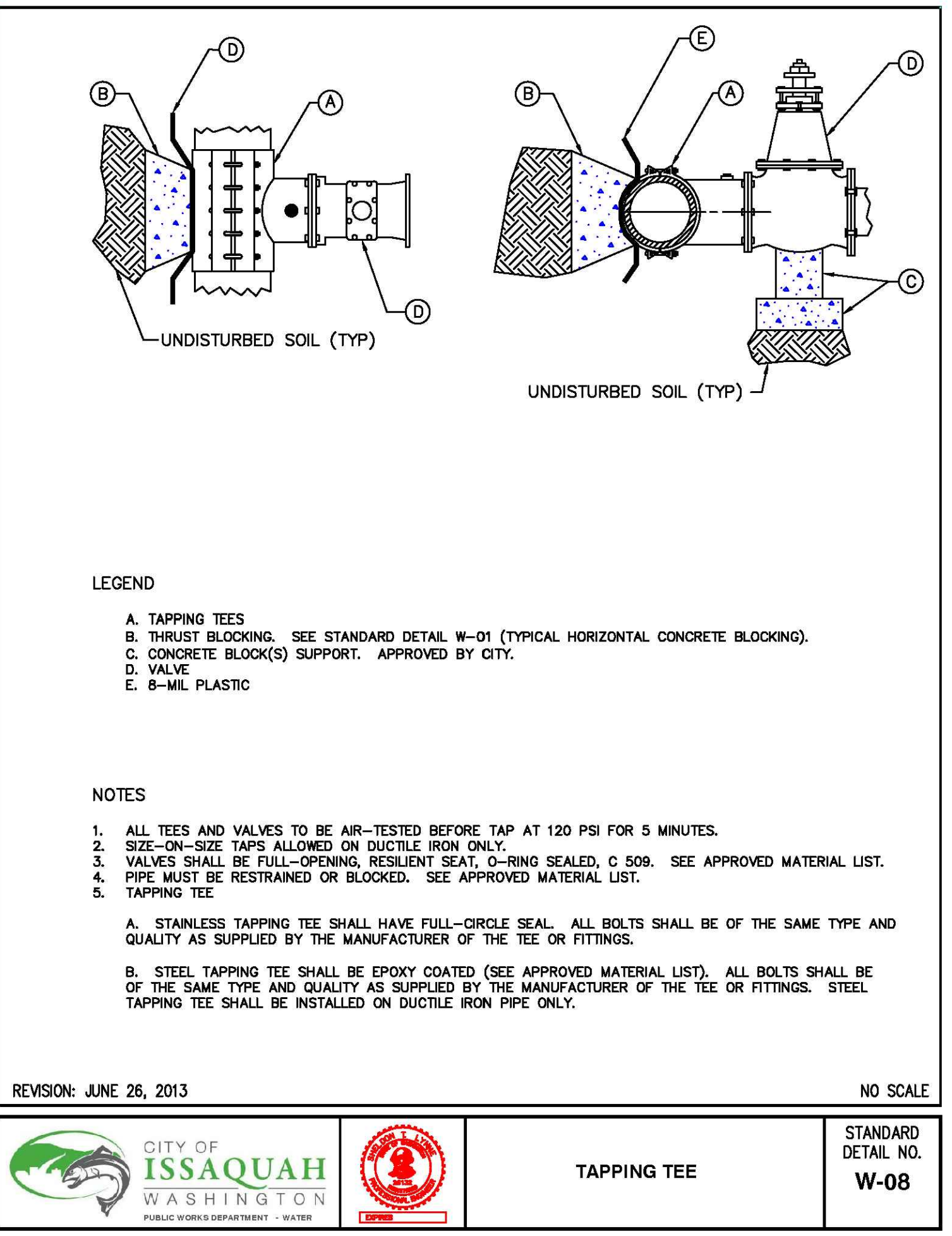
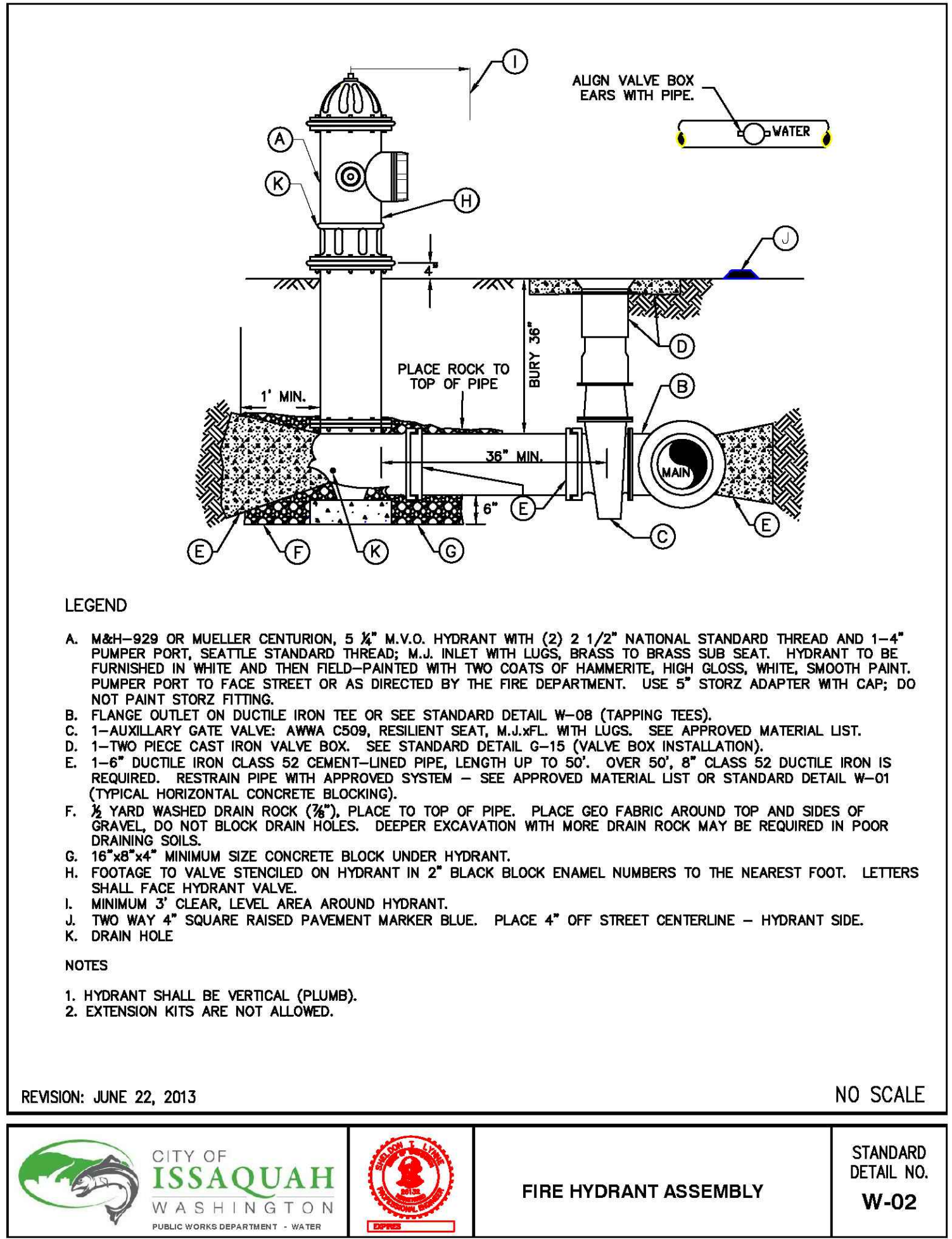
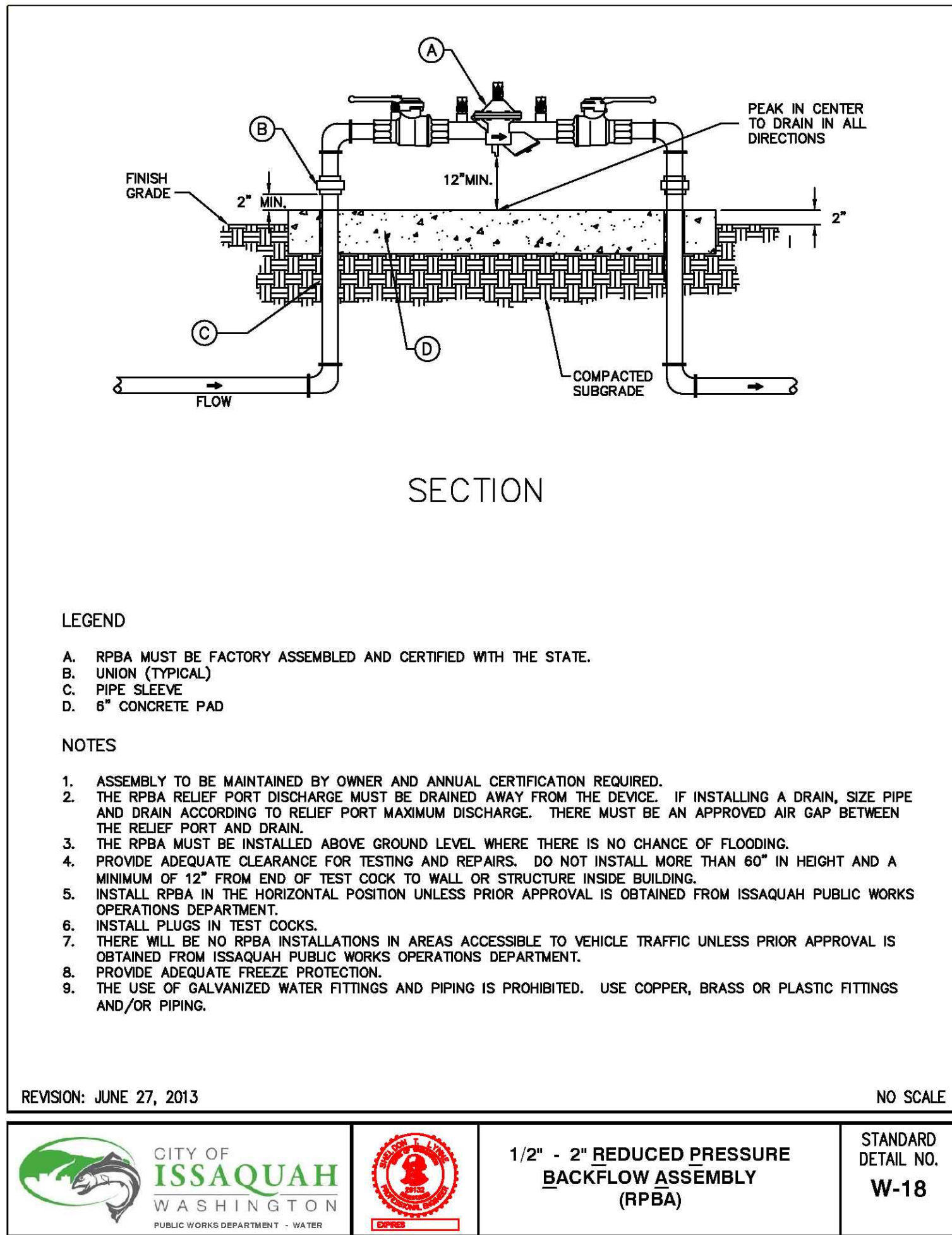
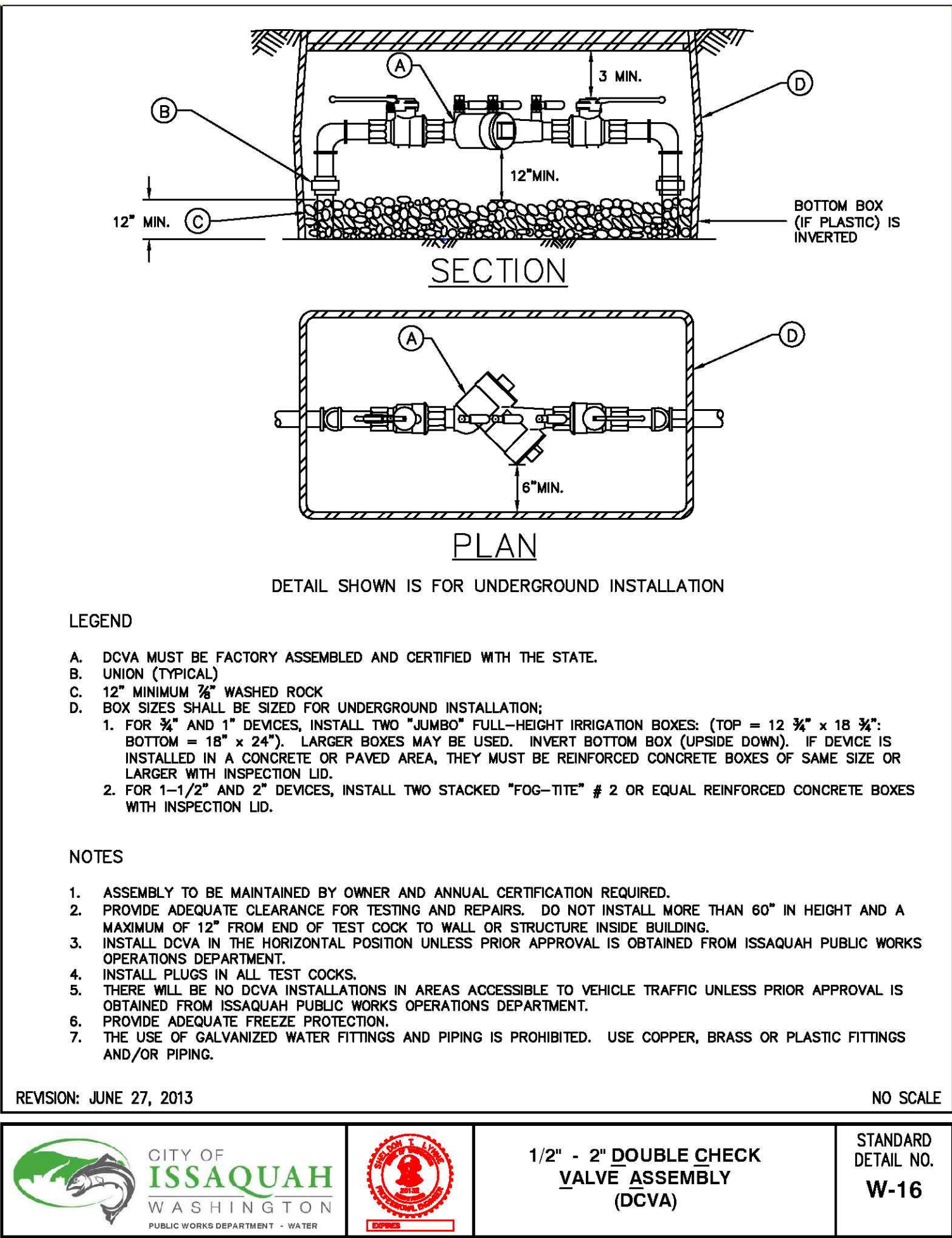
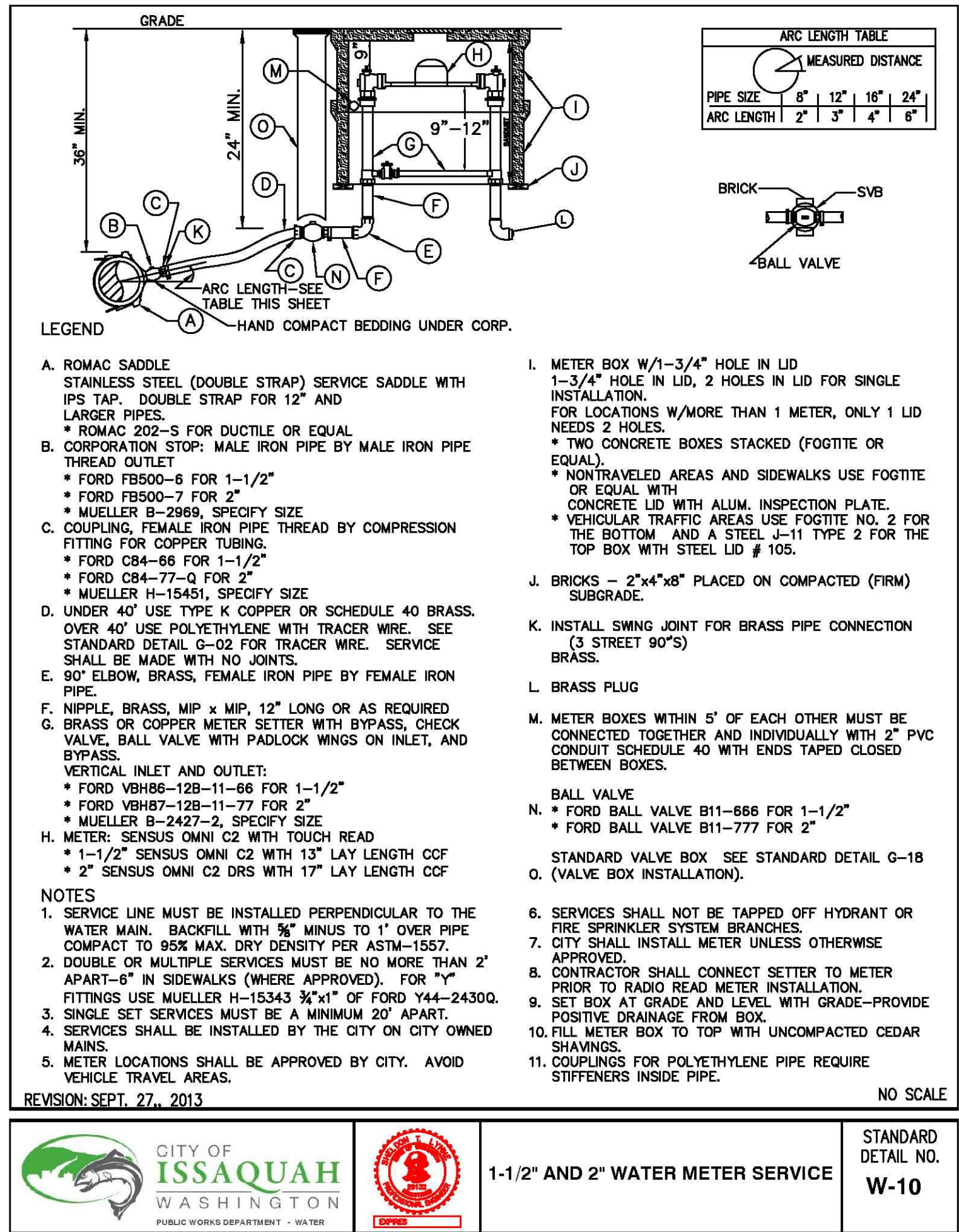
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**C4.2**







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DATE: 07/10/2015 00:05:19 AM  
SCALE: 1/2" = 2'-0"  
XREF FILES: X14537\_BDR,



Silverado - Issaquah

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Silverado



JOB NO.: 14537.00

PLOT DATE: 7/9/2015

DATE: 07/10/15  
SCALE: AS SHOWN  
DESIGNED: CC  
DRAWN: RD  
CHKD: PC

SHEET NO.:

C5.1

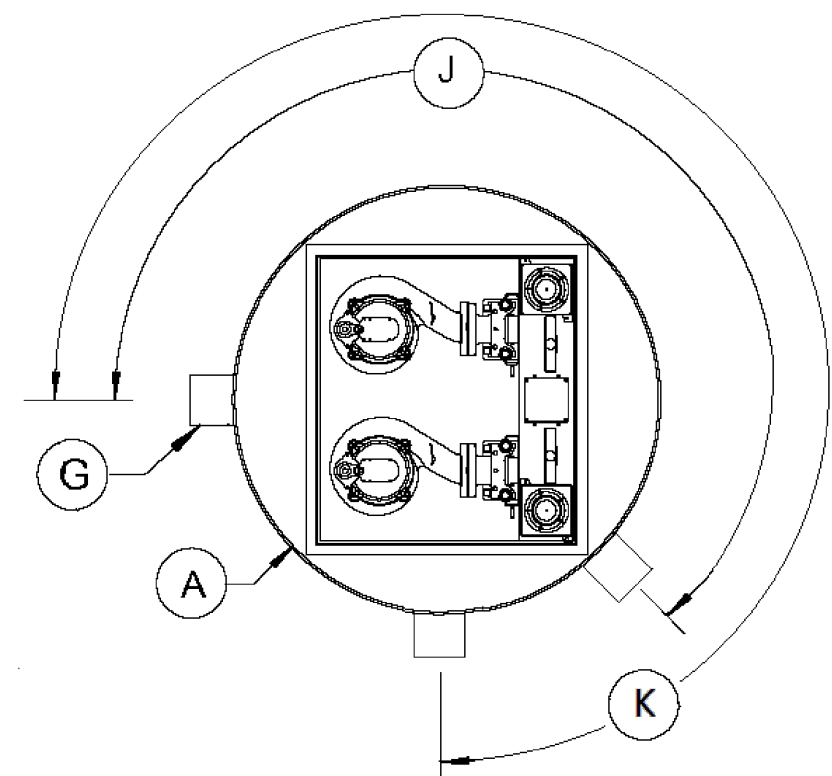
07/10/15



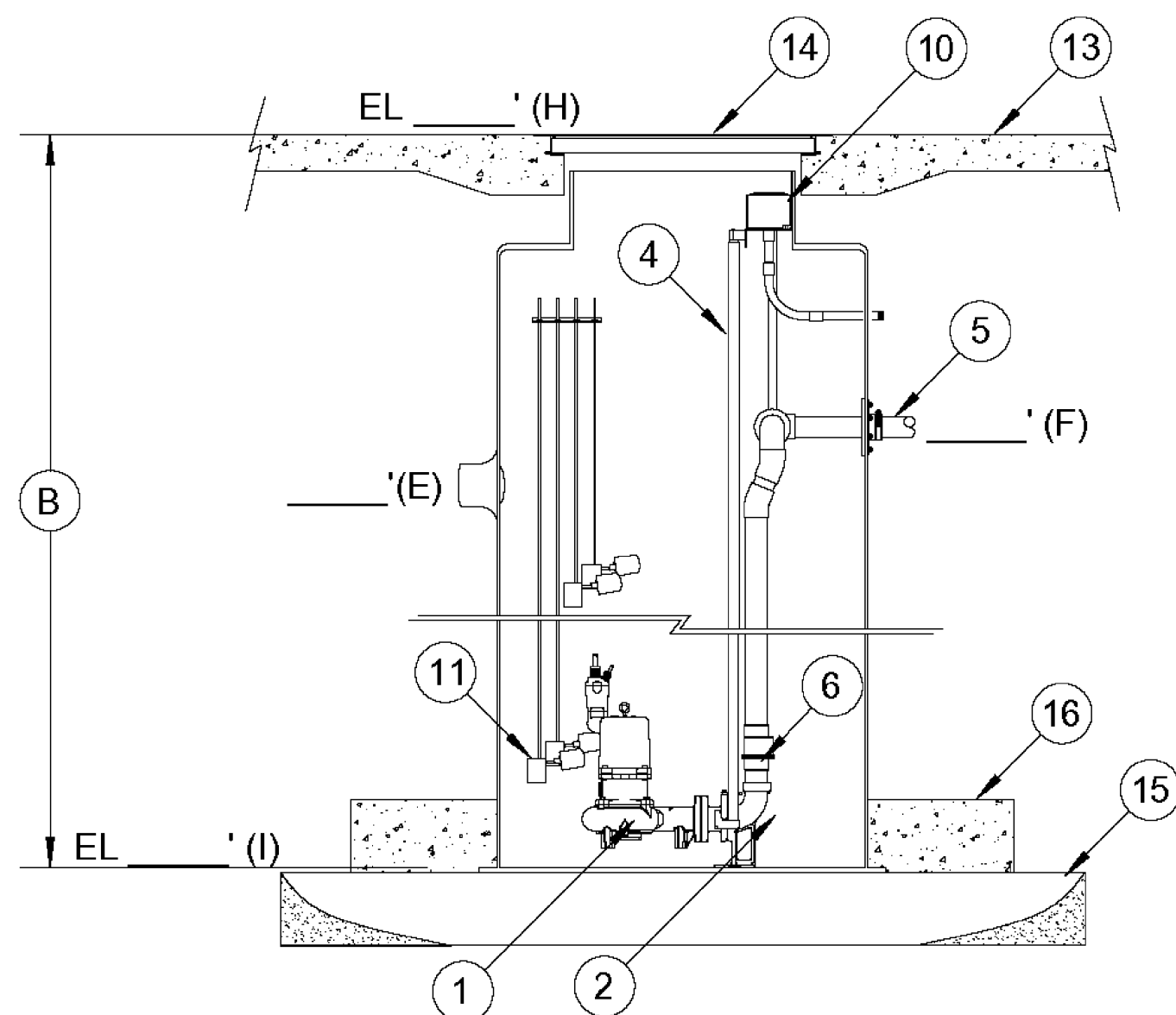




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CHECKED: PC  
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PLAN VIEW



LIFT STATION ELEVATION

**AUTOMATED FLOW SYSTEMS PACKAGED LIFT STATION**

**MODEL AFS-STN-60-180-00-00-30-30-PVC-INT**

(A) FRP WET WELL DIAMETER - 60 in

(B) WET WELL DEPTH - 180 in

(C) FRP VALVE VAULT DIAMETER - NOT USED

(D) VALVE VAULT DEPTH - NOT USED

(E) INLET ELEVATION - 152.2 FT (J)

(F) INLET ELEVATION - 152.2 FT (K)

(G) OUTLET ELEVATION - 158.8 FT

(H) INLET SIZE - 6 IN

(I) RIM ELEVATION - 162.3 FT

(J) BASE ELEVATION - 147.3 FT

(K) INLET LOCATION - 220 DEGREEES (135-270 RECOMMENDED)

(L) INLET LOCATION - 270 DEGREEES (135-270 RECOMMENDED)

(1) HYDRAMATIC MODEL S3RX300 PUMP, 3 HP, 460 VOLT, THREE PHASE

(2) SLIDE RAIL SYSTEM

(3) NOT USED

(4) STAINLESS STEEL SLIDE RAIL

(5) 3" SCHEDULE 80 PVC PIPING & FITTINGS, PROVIDE FITTING FOR CONNECTION TO DISCHARGE PIPE.

(6) CHECK VALVE

(7) NOT USED

(8) NOT USED

(9) NOT USED

(10) ELECTRICAL VAULT & JUNCTION BOXES

(11) LEVEL FLOAT SWITCHES (SEE DETAIL FOR ELEVATIONS)

(12) PUMP REMOVAL SYSTEM - NOT SHOWN

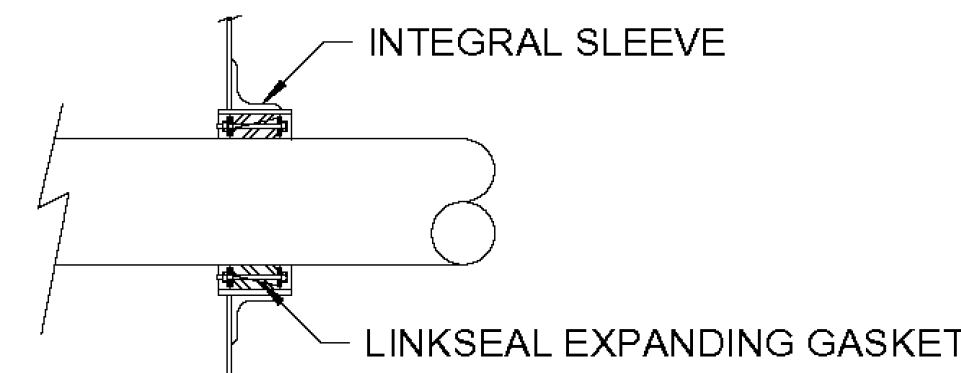
(13) REINFORCED CONCRETE SLAB - BY OTHERS

(14) H-20 HATCH (INTERMITTENT TRAFFIC), 2'x3'

(15) 12" COMPACTED BASE MATERIAL

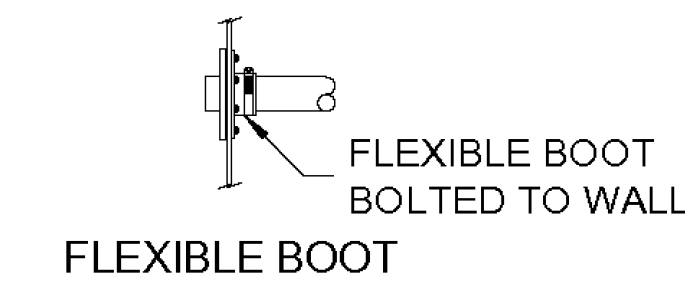
(16) CONCRETE ANTI-FLOTATION RING (IF REQUIRED, POURED ON-SITE)

3" AND LARGER



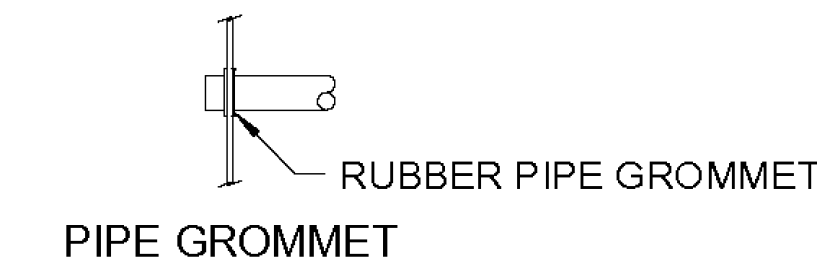
SLEEVE & LINKSEAL

2"-6"

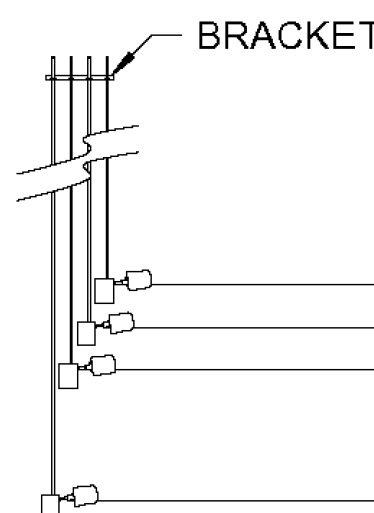


FLEXIBLE BOOT

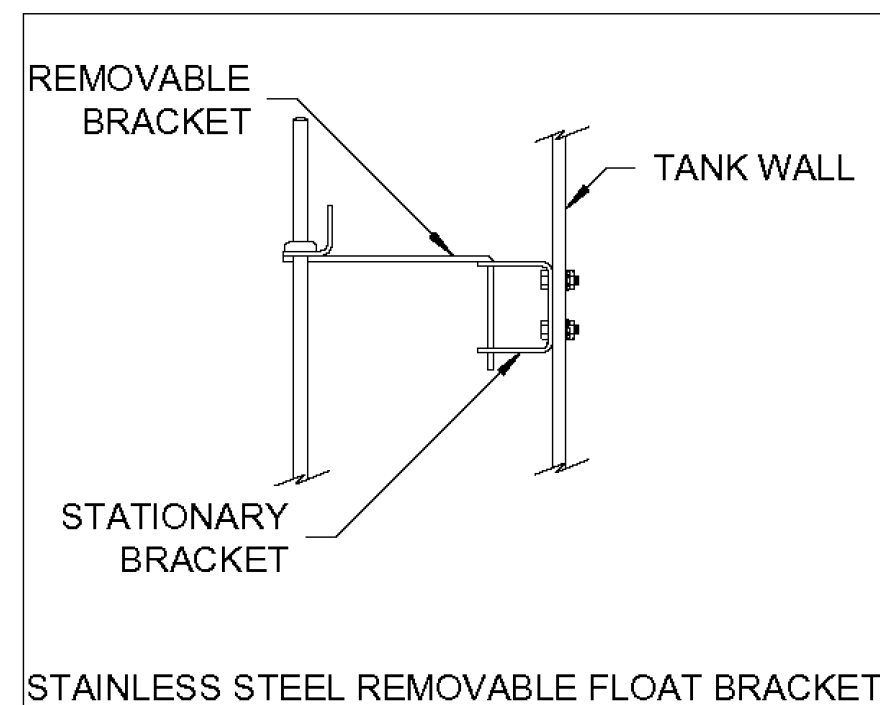
3/4"-4"



PIPE PENETRATION DETAILS

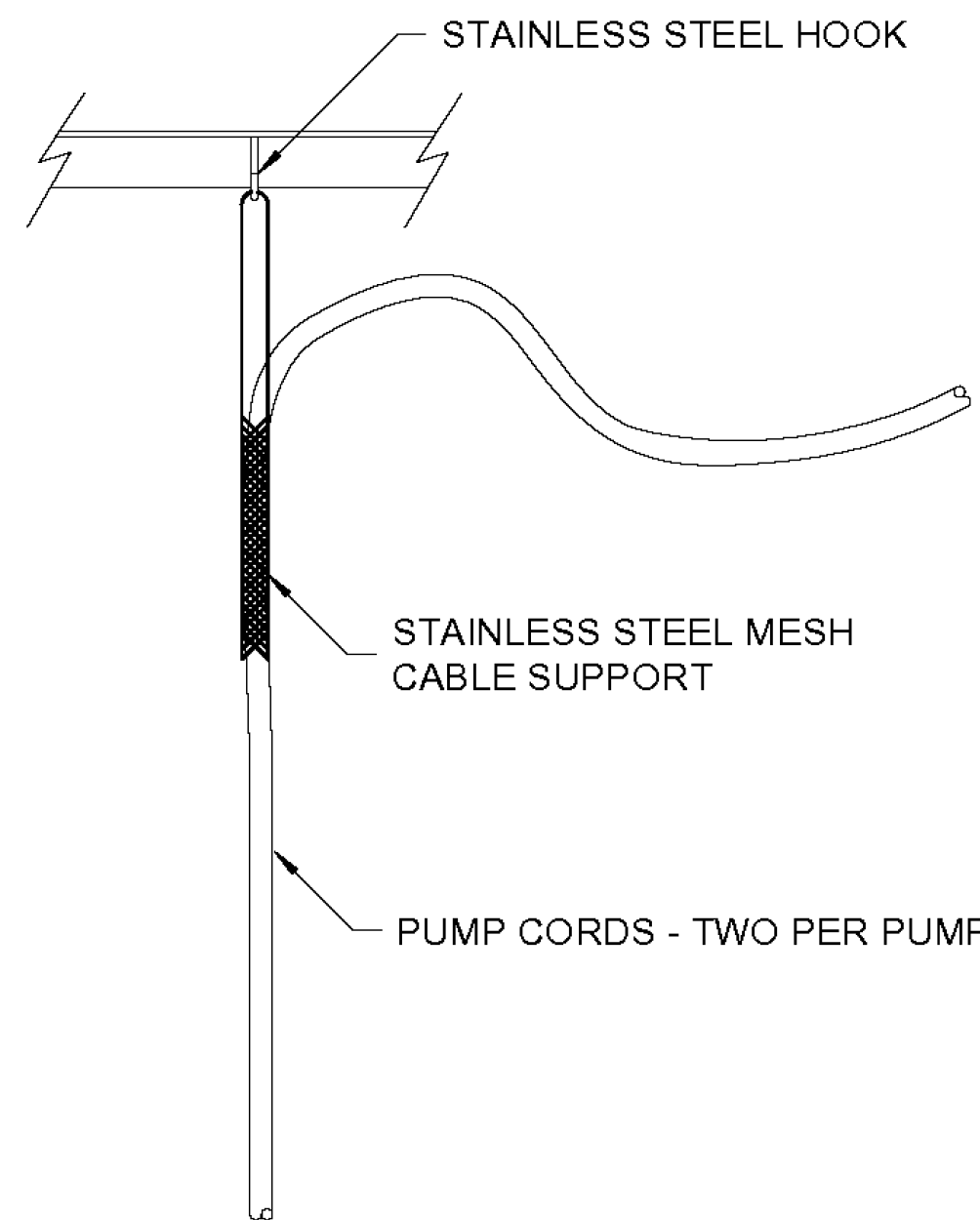


LEVEL FLOAT SWITCH DETAIL

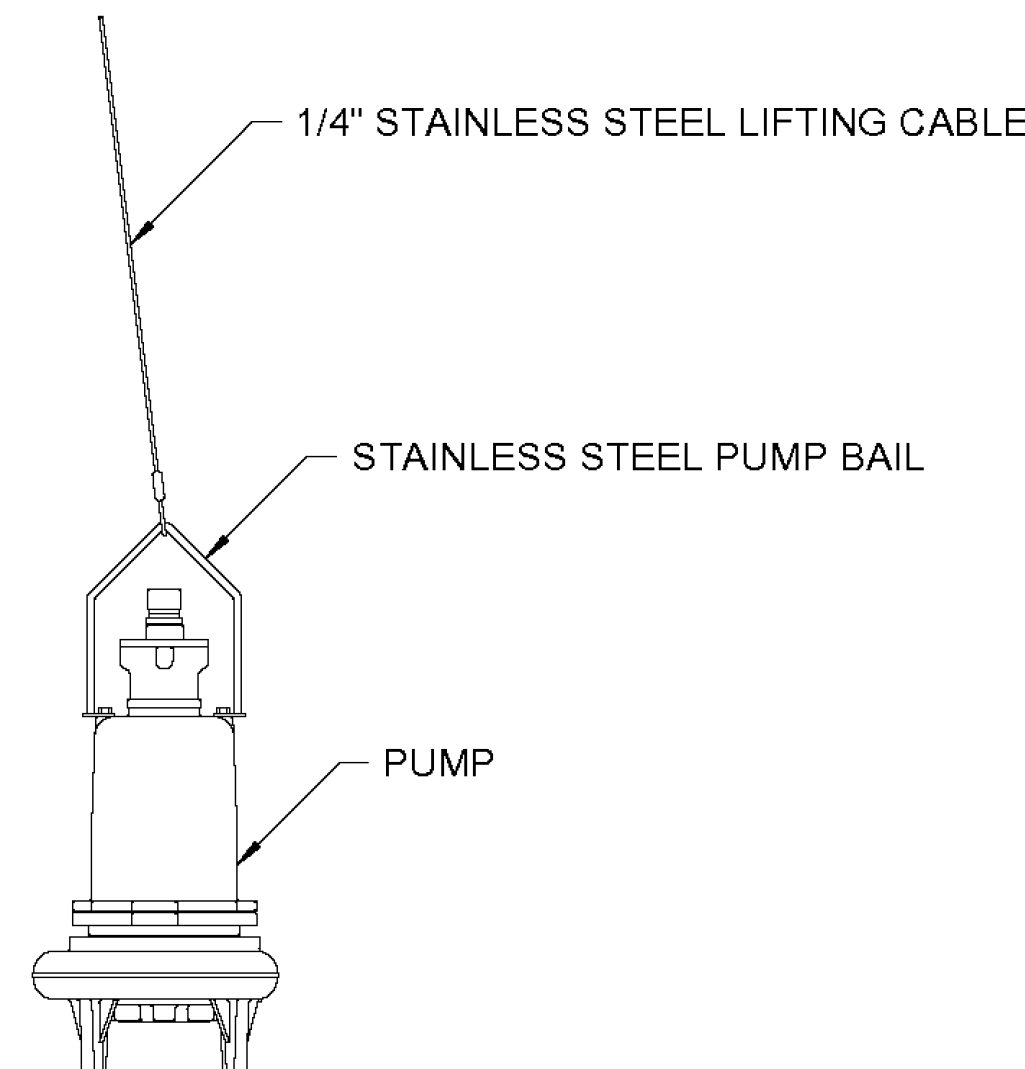


HIGH LEVEL ALARM - EL 152.80 FT  
LAG PUMP ON - EL 152.30 FT  
LEAD PUMP ON - EL 151.80 FT

PUMP(S) OFF - EL 148.80 FT

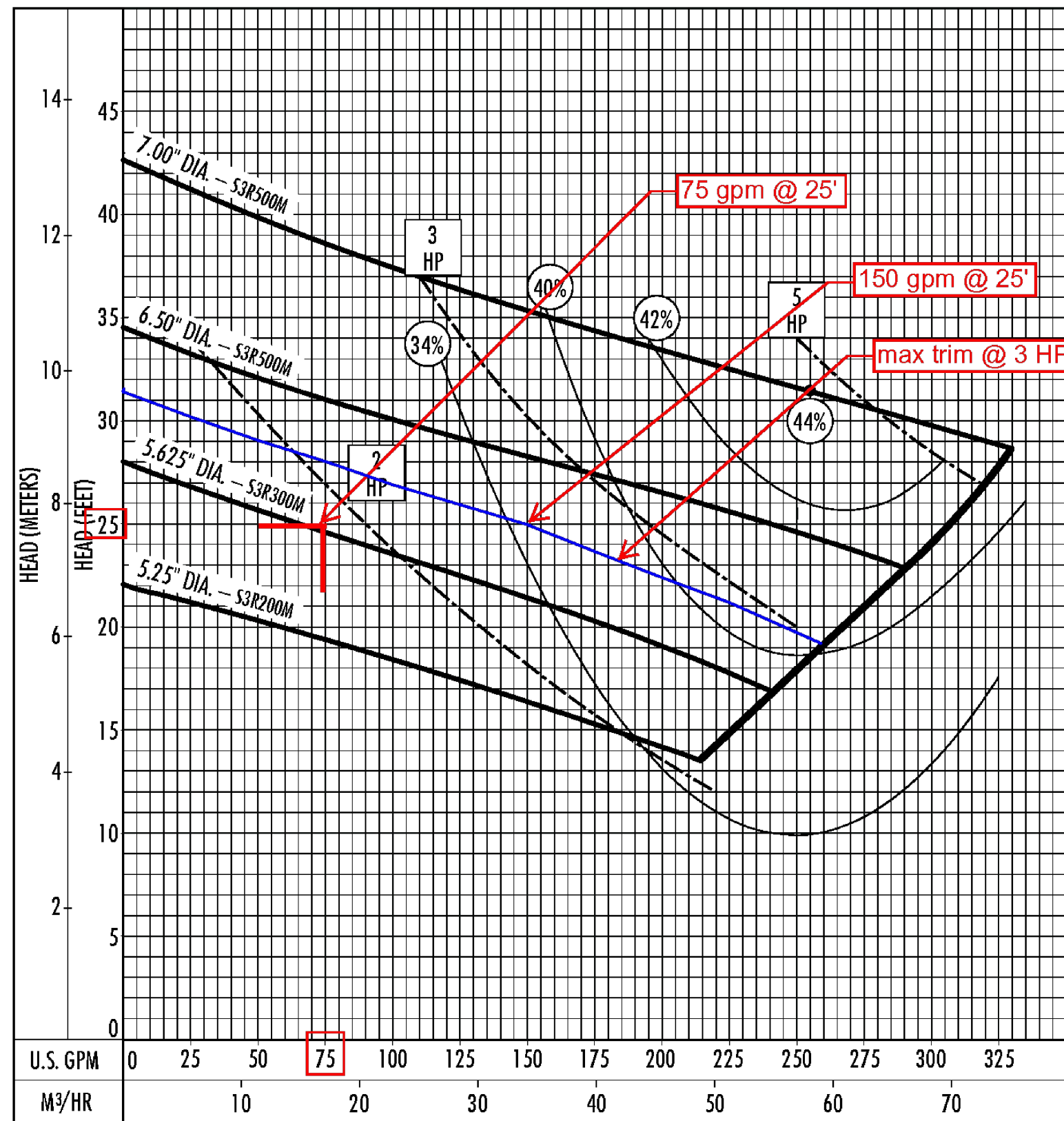


CORD SUPPORT DETAIL



PUMP BAIL & LIFTING CHAIN

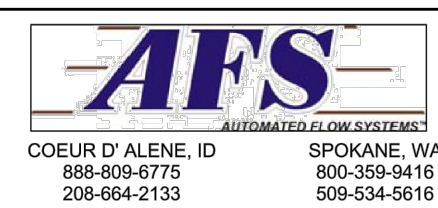
Performance Curve - S3R/S3RX  
RPM: 1750 DISCHARGE: 3" SOLIDS: 3"



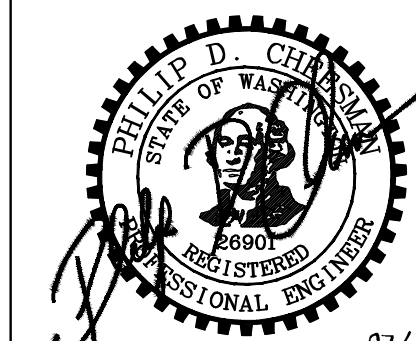
The curves reflect maximum performance characteristics without exceeding full load (Nameplate) horsepower. All pumps have a service factor of 1.2. Operation is recommended in the bounded area with operational point within the curve limit. Performance curves are based on actual tests with clear water at 70° F. and 1280 feet site elevation.

Conditions of Service:  
PENTAIR HYDRAMATIC GPM: 70 TDH: 25 October © 2014 Pentair Ltd.

PUMP PERFORMANCE CURVE



**AFS-STN-60-180-00-00-30-30-PVC-INT**  
PACKAGED LIFE STATION WITH INTERNAL VALVES



07/10/15

WATTENBARGER Architecture  
2102 - 112TH AVENUE NORTH  
SILVERADO, IDAHO 83443  
TEL: 208-358-0506  
FAX: 208-358-1172  
www.wattenbarger.com

11555 Redmond Way, Suite 300  
Kirkland, WA 98033  
p. 425.827.2014 | f. 425.827.5043  
www.paceseg.com | Planning | Survey |  
pacingse.com

Revision Schedule  
# DESCRIPTION DATE

SANITARY SEWER DETAILS

Silverado - Issaquah  
7932 Renton-Issaquah Rd SE, Issaquah, WA 98027  
Silverado

SILVERADO  
lives enriched

JOB NO.:  
**14537.00**

PLOT DATE:  
7/9/2015

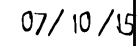
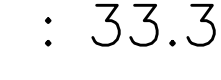
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DRAWN: RD  
CHKD: PC

SHEET NO.:  
**C6.1**









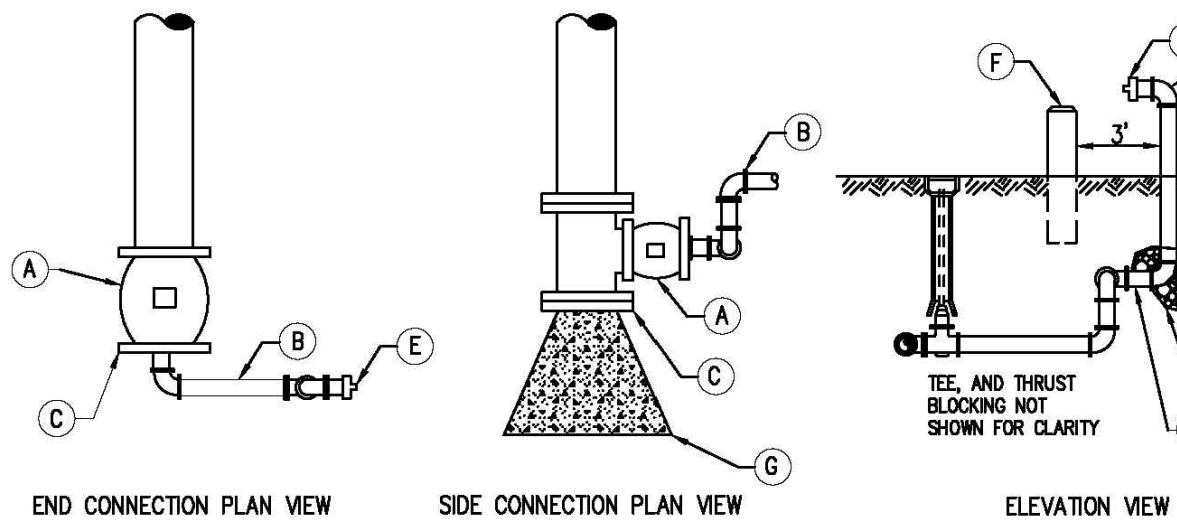
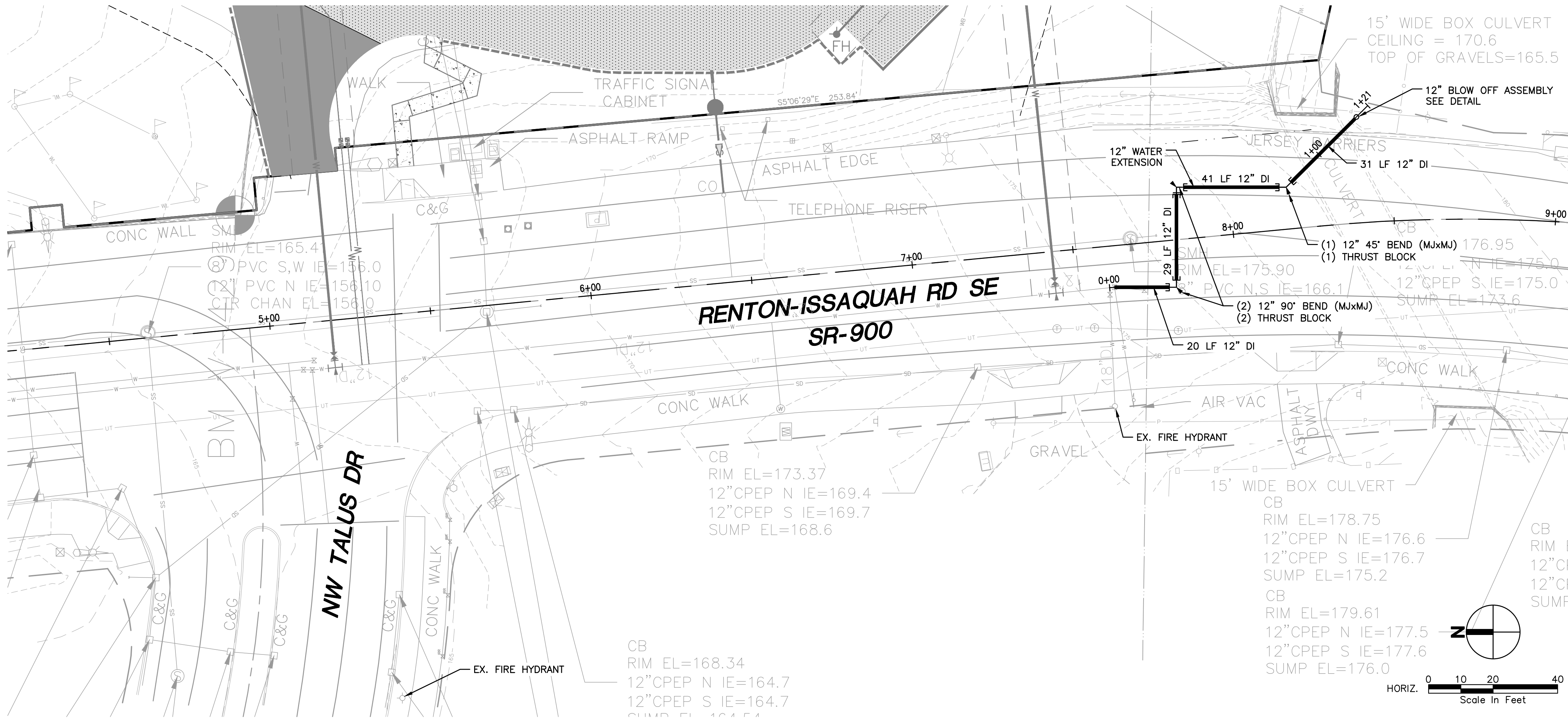


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DATE: 7/9/2015 4:03:10 PM  
DESIGNER: J. W. CANNON  
CHECKER: J. W. CANNON  
XREF FILES: PAGE34X22.





FILE NAME: \\K-DATASVR4\PROJECT\PI14\14537-00 SILVERADO-ISSAQUAH\CAD\ENGINEERING\ SHEETS\PI14537-WTREC.DWG  
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CHECKED: RD  
XREF FILES: X14537\_SRV, X14537\_HATCH, X14537\_GR, X14537\_SD, X14537\_SS, X14537\_WA, X14537\_BDR,



| MAIN SIZE | QUANTITY | BLOW-OFF SIZE |
|-----------|----------|---------------|
| 6         | 1        | 4"            |
| 8         | 1        | 4"            |
| 10        | 1        | F.H.          |
| 12        | 1        | F.H.          |
| ≥16       | PIG      | 4"            |

#### LEGEND

- CAST IRON GATE VALVE, MAIN SIZE x BLOW-OFF SIZE TEE, NON RISING STEM (NRS), WITH 2" SQUARE OPERATING NUT CS69
- FLANGE x FLANGE WITH TAPPED FLANGE AS NEEDED
- BRASS OR DUCTILE IRON PIPE, PROVIDE SWIRL JOINT ON THREADED PIPE
- BLIND FLANGE OR M.L. PLUG x SIZED BLOW-OFF PIPE
- 90° ELBOW WITH 1/2" DRAIN HOLE
- 4" BRASS CAP WITH SEATTLE STANDARD THREAD
- GUARD POSTS WHEN REQUIRED. SEE STANDARD DETAIL G-04 (TYPICAL BOLLARD PLACEMENT - SEE FIXED BOLLARDS).
- PROVIDE RESTRAINED JOINTS OR THRUST BLOCKS FOR DEAD END. (PER DESIGN ENGINEER). SEE STANDARD DETAIL W-01 (TYPICAL HORIZONTAL CONCRETE BOLLARD DETAIL).
- PAIN

#### NOTES

- SEE STANDARD DETAIL G-15 (VALVE BOX INSTALLATION).
- LOCATION OF BLOW-OFF TO BE DETERMINED BY CITY.
- STENCIL FOOTAGE TO VALVE ON DISCHARGE PIPE. 2" BLACK BLOCK ENAMEL NUMBERS.
- HYDRANT ASSEMBLIES MAY BE SUBSTITUTED FOR BLOW-OFF ASSEMBLIES. SEE STANDARD DETAIL W-02 (FIRE HYDRANT ASSEMBLY).
- VALVE SHALL BE LOCATED AT LEAST 3' FROM GUARD POST OR STAND PIPE.

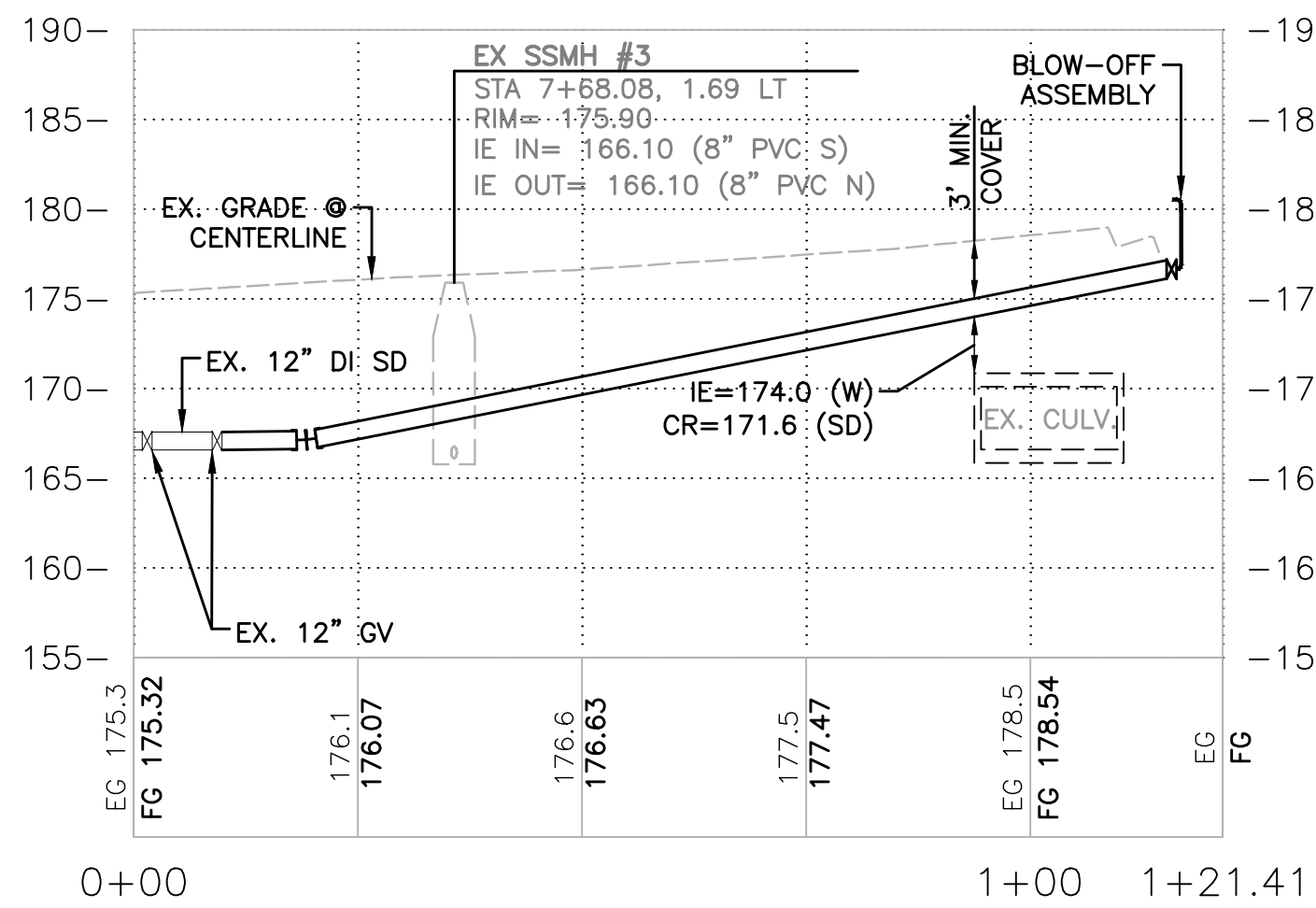
REVISION: JUNE 22, 2013

NO SCALE



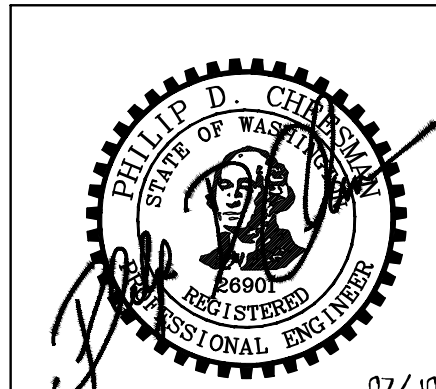
BLOW-OFF ASSEMBLY

STANDARD  
DETAIL NO.  
W-04



Water Main Ex. CL

SCALE= H= 1"=20'  
V= 1"=10'



07/10/15

WAH Architecture  
WATTENBARGER  
2102-112TH AVENUE NORTH  
SEATTLE, WA 98148  
TEL: 206-465-0506  
FAX: 206-465-1172  
www.wah-arch.com

11505 1st Avenue NW, Suite 300  
Kirkland, WA 98033  
P: 425.827.2014 | F: 425.827.5043  
www.pace-engineering.com | Planning | Survey |  
Pace Engineering Services Company  
paceeng.com

Revision Schedule

| # | DESCRIPTION | DATE |
|---|-------------|------|
|   |             |      |
|   |             |      |
|   |             |      |
|   |             |      |
|   |             |      |
|   |             |      |
|   |             |      |
|   |             |      |
|   |             |      |
|   |             |      |

OFFSITE WATER MAIN  
EXTENSION & DETAILS

Silverado - Issaquah

7902 Renton-Issaquah Rd SE, Issaquah, WA 98027

Silverado

S SILVERADO  
lives enriched

JOB NO.:  
14537.00

PLOT DATE:  
7/9/2015

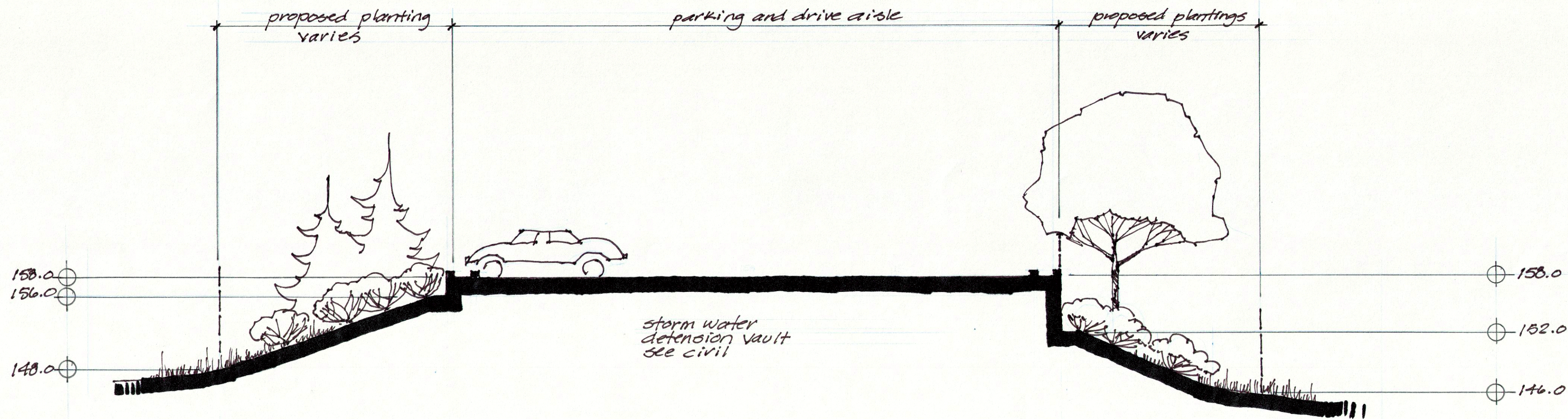
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SHEET NO.:  
C9.0

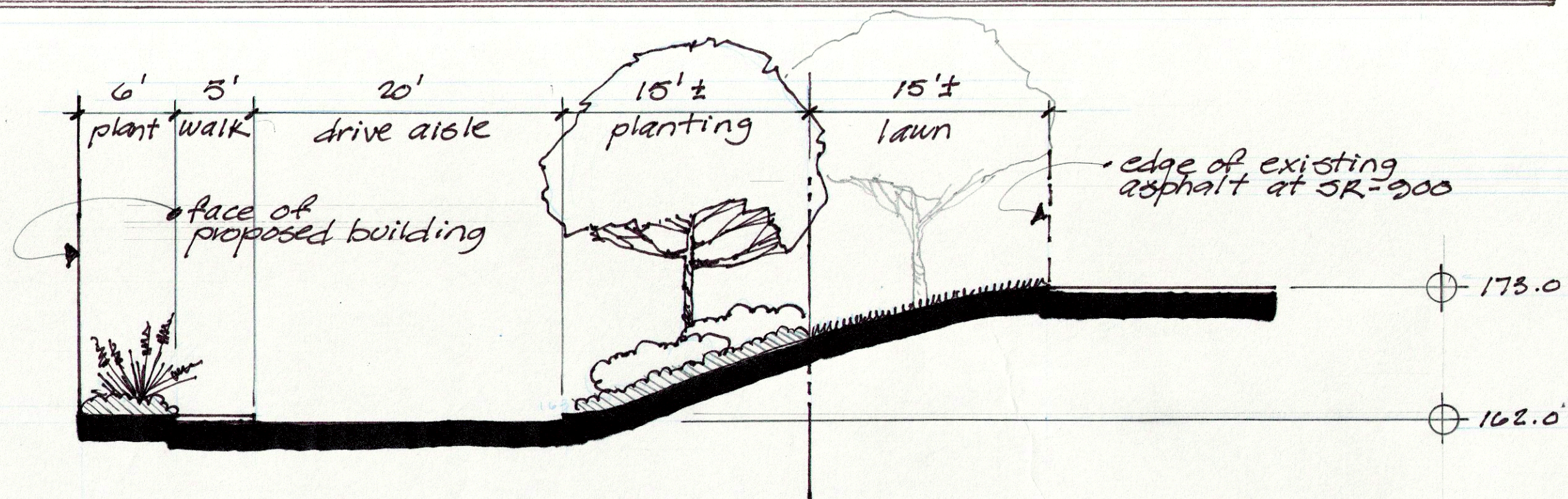




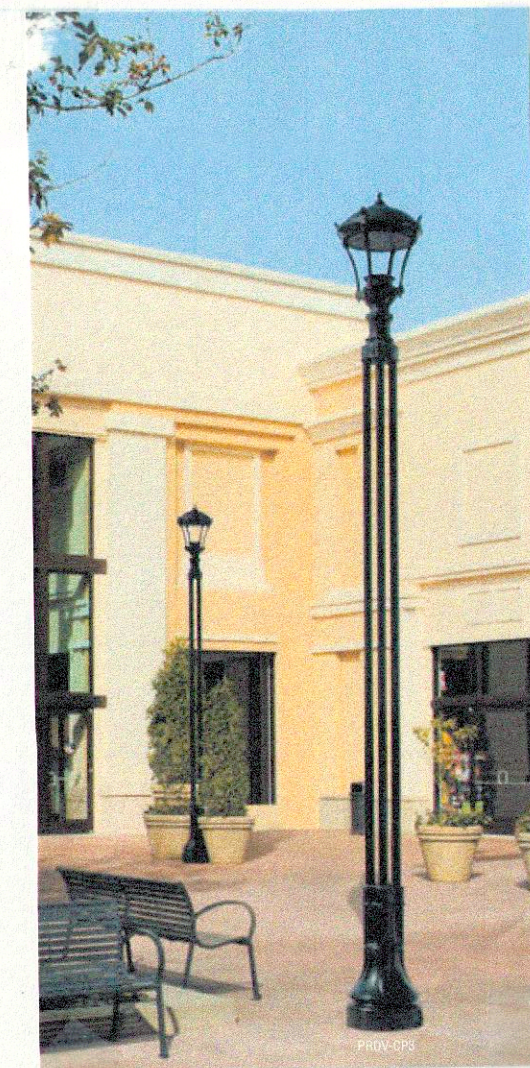
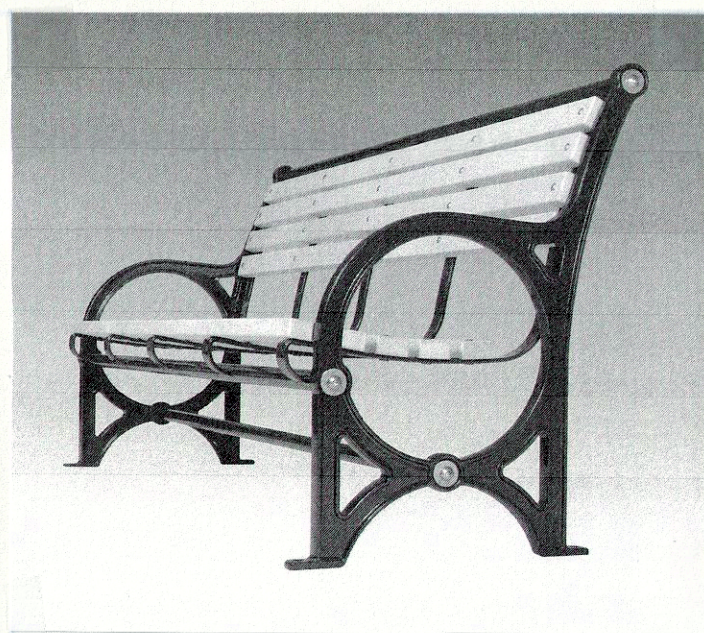




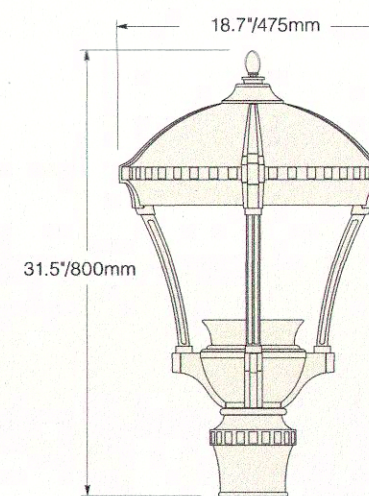
SECTION A-A  
1/8" = 1'-0"



SECTION B-B  
1/8" = 1'-0"



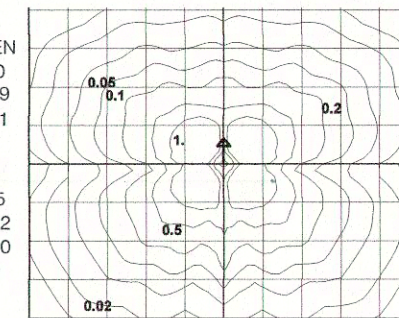
DIMENSIONS



Weight: 29 LBS  
EPA: 0.96

PROV H5 150MH WATTAGE: 185 LUMEN OUTPUT: 7178 EFFICACY: 67.5

| B3 U0 G1 |      | Mounting Height |      | Multiplier |       |
|----------|------|-----------------|------|------------|-------|
| FL       | 30°  | 1.0%            | 240  | 10         | 4.000 |
| FM       | 60°  | 15.1%           | 1889 | 15         | 1.778 |
| FM       | 80°  | 11.3%           | 1411 | 20         | 1.000 |
| FHM      | 90°  | 0.4%            | 52   | 25         | 0.640 |
| BL       | 30°  | 1.8%            | 225  | 30         | 0.444 |
| BM       | 60°  | 14.4%           | 1802 | 35         | 0.327 |
| BH       | 80°  | 12.0%           | 1500 | 40         | 0.250 |
| BVH      | 90°  | 0.5%            | 60   | 45         | 0.188 |
| UL       | 100° | 0%              | 0    | 50         | 0.150 |
| UH       | 180° | 0%              | 0    |            |       |



PROPOSED SITE AMENITIES